



112  
4  
176







# Wrought-iron Tubes and Fittings, for Gas, Steam, and Water.

BLACK AND GALVANIZED.

## DISCOUNT ON APPLICATION.

No.	INTERNAL DIAMETER	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{8}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6
TUBES.																			
1	Tubes ... 2 ft. & up in length per ft.	-3	-3 $\frac{1}{2}$	-4 $\frac{1}{2}$	-6	-8 $\frac{1}{2}$	1/-	1/3	1/6	1/9	2/6	3/-	3/3	3/6	4/6	5/6	6/-	6/9	7/9
2	Pieces ... 12 to 23 $\frac{1}{2}$ ins. long, each	-8	-9	-11	1/3	1/9	2/6	3/3	3/11	4/7	6/9	8/6	9/6	10/6	13/2	16/-	21/-	24/6	29/6
3	Do. ... 3 to 11 $\frac{1}{2}$ " " "	-5	-5 $\frac{1}{2}$	-7	-10	1/1	1/6	2/-	2/5	2/10	4/3	5/6	6/3	7/-	9/1	11/-	15/6	18/3	22/3
4	Longscrews, 12 to 23 $\frac{1}{2}$ " " "	-9	-10	1/-	1/4	1/10	2/8	3/6	4/3	5/-	7/6	9/7	11/3	12/-	15/3	17/-	23/3	27/-	32/6
5	Do. ... 3 to 11 $\frac{1}{2}$ " " "	-6	-6 $\frac{1}{2}$	-8	-10	1/2	1/8	2/3	2/9	3/3	5/-	6/4	7/6	8/3	10/9	12/3	17/-	20/3	24/6
6	Bends ... " " " " "	-7	-8	-10	1/-	1/6	2/6	3/-	4/-	5/-	8/6	12/-	15/-	18/-	25/-	32/6	80/-	105/-	135/-
7,8,9	Springs, NOT SOCKETED	-5	-6	-7	-9	1/1 $\frac{1}{2}$	1/11 $\frac{1}{4}$	2/3 $\frac{1}{4}$	3/1	3/11	6/9	9/6	12/-	14/6	20/-	26/6	70/-	93/-	120/-
FITTINGS.																			
12	Elbows, SQUARE ... each	-8 $\frac{1}{2}$	-9	-10	1/-	1/4	1/10	2/5	3/-	3/10	6/3	9/-	11/6	14/-	22/-	28/-	75/-	95/-	120/-
13	Tees ... " "	-9	-10	-11	1/2	1/5	2/-	2/6	3/2	4/3	6/6	9/6	12/6	16/6	24/-	30/-	78/-	98/-	125/-
14	Crosses ... " "	1/4	1/6	1/11	2/4	3/-	4/-	4/10	6/-	7/9	14/-	21/4	28/-	40/-	56/-	66/8	175/-	220/-	280/-
15	Sockets, PLAIN ... " "	-2	-2	-3	-3 $\frac{1}{2}$	-4 $\frac{1}{2}$	-6 $\frac{1}{2}$	-8 $\frac{1}{2}$	-11	1/1	1/9	2/6	3/-	3/6	5/-	6/-	10/-	12/-	15/-
16	Do. DIMINISHED ... " "	-3	-4	-5	-6	-7	-9	-11	1/2	1/4	2/3	3/3	4/-	5/-	7/-	9/-	25/-	35/-	45/-
17	Flanges ... " "	-9	-10	1/-	1/2	1/4	1/9	2/-	2/3	2/9	4/-	5/-	6/9	8/6	10/-	11/6	16/-	18/-	23/-
18	Caps ... " "	-3 $\frac{1}{2}$	-3 $\frac{1}{2}$	-5	-6	-8	1/-	1/3	1/7	2/-	3/-	4/4	5/3	6/-	9/9	10/6	25/-	30/-	37/6
19	Plugs ... " "	-3	-3	-4	-5	-6	-8	-10	1/-	1/3	2/-	2/6	3/6	4/9	7/-	10/-	22/-	30/-	39/-
20	Backnuts ... " "	-2	-2	-3	-3 $\frac{1}{2}$	-5	-6	-8	-10	1/1	1/9	2/3	3/-	3/6	4/6	5/6	14/-	18/-	21/-
21	Nipples ... " "	-2	-2	-3	-3 $\frac{1}{2}$	-4	-6	-8	-10	1/-	1/9	2/3	3/-	3/6	4/6	5/6	14/-	18/-	21/-
21A	Barrel Nipples ... " "	-5	-5	-7 $\frac{1}{2}$	-9	-10	1/3	1/8	2/1	2/6	4/4	5/8	7/6	8/9	11/3	13/9	28/-	36/-	42/-
23	Elbows, ROUND ... " "	-9 $\frac{1}{2}$	-11	1/-	1/3	1/6	2/1	2/7	3/6	4/6	6/9	10/-	13/-	17/-	25/-	32/-	75/-	95/-	120/-
24	Main Cocks ... " "	2/3	2/9	3/6	4/6	6/6	8/6	11/-	14/-	18/-	27/-	40/-	50/-	60/-	85/-	110/-	210/-	270/-	360/-
25	Do. WITH BRASS PLUGS ... " "	—	7/-	8/9	11/6	16/-	21/6	28/-	35/-	45/-	68/-	100/-	112/-	125/-	212/-	250/-	360/-	450/-	570/-
26	Round Way Cocks ... " "	—	3/6	4/-	5/6	7/6	10/-	13/-	17/6	22/-	38/-	60/-	65/-	75/-	120/-	160/-	—	—	—
27	Do. do. WITH BRASS PLUGS ... " "	—	10/6	12/-	16/6	22/6	30/-	39/-	52/6	66/-	114/-	180/-	195/-	225/-	360/-	480/-	—	—	—
28	Cock Spanners, WROUGHT ... " "	—	1/6	1/8	2/2	2/8	3/2	3/6	4/-	4/3	4/9	6/-	7/6	9/-	12/-	14/-	16/-	19/-	22/-
29	Do. do. MALLEABLE CAST ... " "	—	1/-	1/4	1/8	2/-	2/4	3/-	3/6	4/-	4/9	6/-	7/6	9/-	12/-	14/-	16/-	19/-	22/-
30	Syphon Boxes, 1 QUART ... " "	—	—	22/9	23/-	23/4	24/-	24/6	25/2	26/3	28/6	—	—	—	—	—	—	—	—
31	Do. do. 2 QUARTS ... " "	—	—	—	27/-	27/4	28/-	28/6	29/2	30/3	32/6	35/6	38/6	42/6	—	—	—	—	—
32	Do. do. 3 QUARTS ... " "	—	—	—	32/-	32/4	33/-	33/6	34/2	35/3	37/6	40/6	43/6	47/6	55/6	61/6	—	—	—
33	Do. do. 4 QUARTS ... " "	—	—	—	38/-	38/4	39/-	39/6	40/2	41/3	43/6	46/6	49/6	53/6	61/6	67/6	—	—	—
34	Malleable Cast Round Elbows ... " "	-6 $\frac{1}{2}$	-7	-8	-10	1/2	1/9	2/3	3/-	3/6	5/6	9/-	12/-	15/-	30/-	40/-	—	—	—
10, 11	Socket Union, Pipe Union ... each	2/-	2/6	3/-	4/-	5/6	6/9	8/-	9/-	10/-	15/-	17/6	20/-	22/6	27/6	35/-	48/-	66/-	84/-
22	Union Bends ... " "	2/6	3/-	3/9	5/-	6/3	8/6	10/-	11/6	13/6	21/-	27/-	32/-	37/-	49/-	58/-	78/-	100/-	135/-
FLANGE DIAMETERS		2 $\frac{1}{2}$ and 2 $\frac{3}{4}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	5 $\frac{3}{4}$	6	6 $\frac{1}{2}$	7	7 $\frac{1}{4}$	7 $\frac{1}{2}$	8	9	9 $\frac{1}{2}$	10	10 $\frac{1}{2}$

## NOTES.

Tubes 2 to 6 feet long, and Tubes cut to exact lengths, if screwed and socketed, are charged 2  $\frac{1}{2}$ % less gross discount than random lengths.

Tubes in random lengths, not screwed, are charged at the current discount, with an extra allowance of 2  $\frac{1}{2}$ % off the net.

Tubes screwed and sent without sockets are charged at the current discount, with an extra 1  $\frac{1}{4}$ % off the net.

Intermediate diameters are charged at the next higher price.

Tubes coated inside and outside with Dr. Angus Smith's, or any other solution, are charged at 2  $\frac{1}{2}$ % less gross discount.

Tubes screwed and socketed, right and left-hand, are charged 2  $\frac{1}{2}$ % less gross discount than if screwed ordinary.

Short pieces are always sent "under," i.e., from 3 in. to 11  $\frac{1}{2}$  in. long, if not otherwise specified on the order.

Fittings Nos. 10, 11, and 22 are subject to Steam Fitting Discounts.

Flanges of special outside diameter are charged at the price of the size which has the required diameter.

Prices of Angle Tees, Angle Elbows, Five-way Pieces, Y Pieces, will be quoted on application.



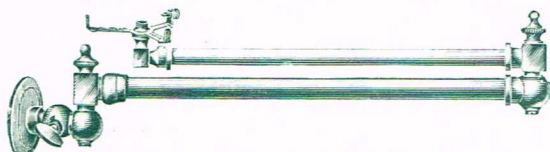
## GAS FITTINGS, BRASS.

The illustrations shewn below are a selection only from our Gasfittings Catalogue, which we shall be pleased to forward.



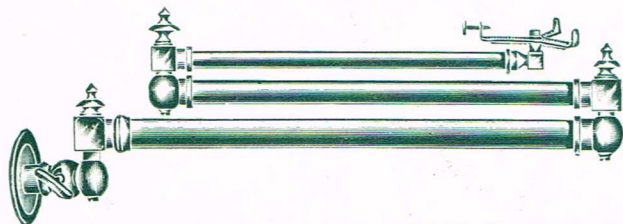
No.	W 2131	Single Bracket,	Finish : Bright.	Copper.	Steel.	
"	W 050S	"	× 11in.,	17/9	17/9	17/9 doz., Ordinary Strength.
"	W 2159	"	× 12in.,	20/-	20/-	Medium "
"	W 61	"	× 12in.,	23/6	23/6	" " "
"	W 50	strong	× 12in.,	31/6	31/6	" " "
"	W 63	"	× 12in.,	28/6	28/6	Strongest.
"	W 64	"	× 12in.,	36/-	36/-	" " "
"	W 65	"	× 12in.,	39/6	39/6	" " "
"		"	× 12in.,	50/-	50/-	" " "

A good serviceable pattern.



No.	W 2158	Double Bracket,	Finish : Bright.	Copper.	Steel.	
"	W 51S	"	× 24in.,	33/-	33/-	33/- doz., Ordinary Strength.
"	W 66	"	× 24in.,	35/6	35/6	Medium "
"	W 51	strong	× 24in.,	46/-	46/-	" " "
"	W 67	"	× 24in.,	53/-	53/-	Strongest.
"	W 68	"	× 24in.,	59/-	59/-	" " "
"		"	× 24in.,	75/-	75/-	" " "

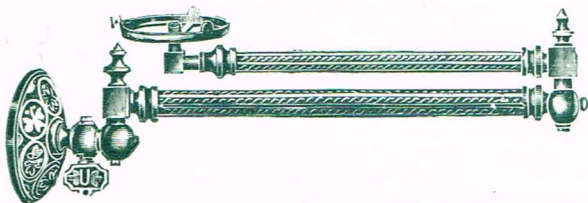
A good serviceable pattern.



No.	W 52	Treble Bracket,	Finish : Bright.	Copper.	Steel.	
"	W 70	"	× 36in.,	74/-	74/-	74/- doz.
"	W 71	"	× 36in.,	88/-	88/-	" "
"		"	× 36in.,	102/-	102/-	" "



No.	W 1634	Single Bracket,	Finish : Bright.	Copper.	Steel.	
"	W 1621	"	× 13in., Fancy Tube...	3/6	3/6	3/6 each.
"	W 1624	"	× 16in.,	5/6	5/6	5/6 "
"		"	× 16in.,	7/-	7/-	7/- "



No.	W 1635	Double Bracket,	Finish : Bright.	Copper.	Steel.	
"	W 1643	"	× 24in., Fancy Tube	5/-	5/-	5/- each.
"	W 1644	"	× 26in.,	7/6	7/6	7/6 "
"	W 1645	Treble	× 39in.,	9/-	9/-	9/- "
"	W 1646	"	× 39in.,	10/-	10/-	10/- "
"		"	× 39in.,	12/6	12/6	12/6 "

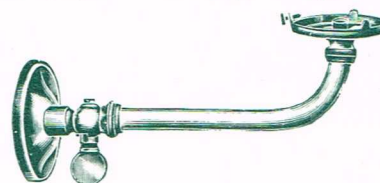


No.	W 6877	Swing Bracket, Fancy Tube,	Finish : Bright.	Copper.	Steel.	
"		½ × 15in. long	7/6	7/6	7/6 each.	

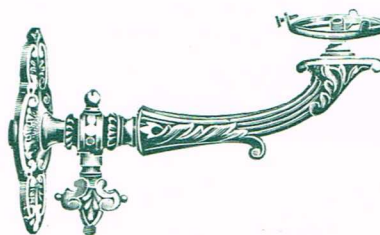
Glasses, Incandescent Burners and Chimneys charged extra.  
Special Discount off above prices for quantities.



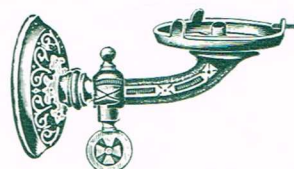
No.	W 2867	Stiff Turn-up Bracket, Fancy Tube.	Finish : Bright.	Copper.	Steel.	
"	W 2868	"	20/-	20/-	20/- doz.	
"		"	23/6	23/6	23/6 "	



No.	W 245	Stiff Turn-up Bracket, Plain Tube.	Finish : Bright.	Copper.	Steel.	
"	W 344	"	20/6	20/6	20/6 doz.	
"		"	27/6	27/6	27/6 "	



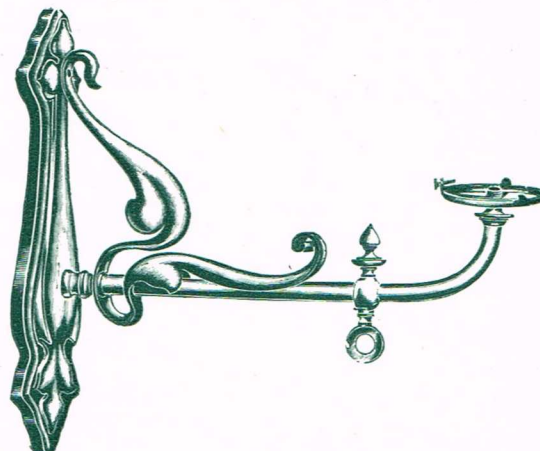
No.	W 2452	Stiff Cast Fancy Lobby Bracket.	Finish : Bright.	Copper.	Steel.	
"		7½in. long	5/9	5/9	5/9 each.	



No.	W 651	Stiff Cast Fancy Lobby Bracket.	Finish : Bright.	Copper.	Steel.	
"		4½in. long	4/6	4/6	4/6 each.	



No.	W 2456	Stiff Turn-up Bracket, Plain Tube.	Finish : Bright.	Copper.	Steel.	
"	W 2457	"	15/6	15/6	15/6 doz.	
"		"	18/-	18/-	18/- "	

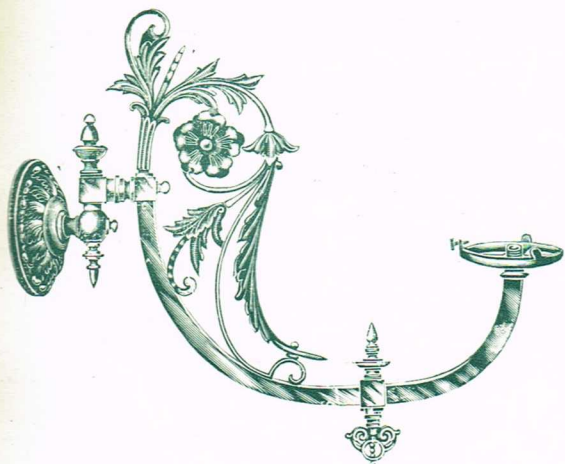


No.	W 6899	Polished Bracket, Stiff Back, Ribbon Scrolls,				
"		7/8 × 14in. long	20/6	20/6	20/6 each.	
"		Shaped Blocks for ditto,	3/3	3/3	3/3 each.	



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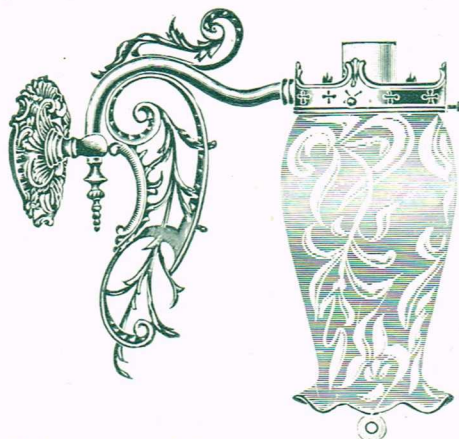
No. W 2978 Swing Bracket, Square Tube, Polished, with Copper Rosettes.  
 $1\frac{7}{8} \times 14\frac{1}{2}$  in. long, 17/- each.



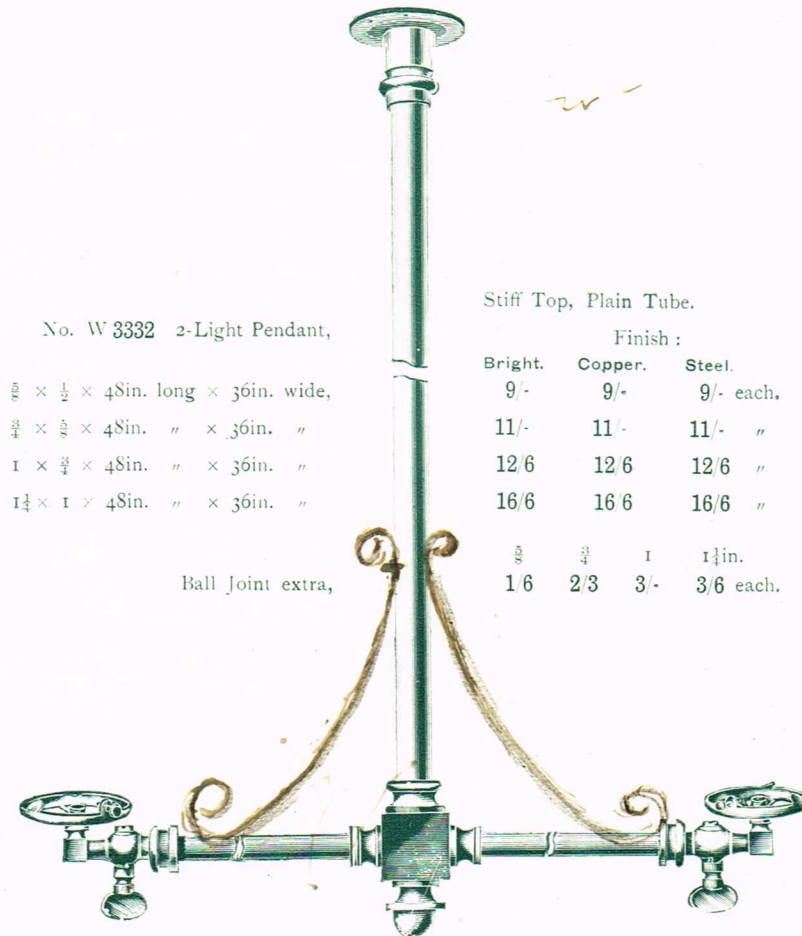
No. W 6893 Polished Swing Bracket, Plain Tube.  
 $\frac{1}{2} \times 16\frac{1}{2}$  in. long, 14/- each.



No. W 6965 Polished Stiff Bracket, Plain Tube,  $\frac{7}{8} \times 12\frac{1}{2}$  in. projection, with Etched Salmon Tinted Shade, 14/6 each.



No. W 6966 Polished Stiff Bracket, Plain Tube,  $\frac{7}{8} \times 14$  in. projection, with Moulded Opaline and Ruby Tinted Shade, 19/- each.



No. W 3332 2-Light Pendant,

$\frac{9}{16} \times \frac{1}{2} \times 48$  in. long  $\times$  36 in. wide,  
 $\frac{3}{4} \times \frac{5}{8} \times 48$  in. "  $\times$  36 in. "  
 $1 \times \frac{3}{4} \times 48$  in. "  $\times$  36 in. "  
 $1\frac{1}{4} \times 1 \times 48$  in. "  $\times$  36 in. "

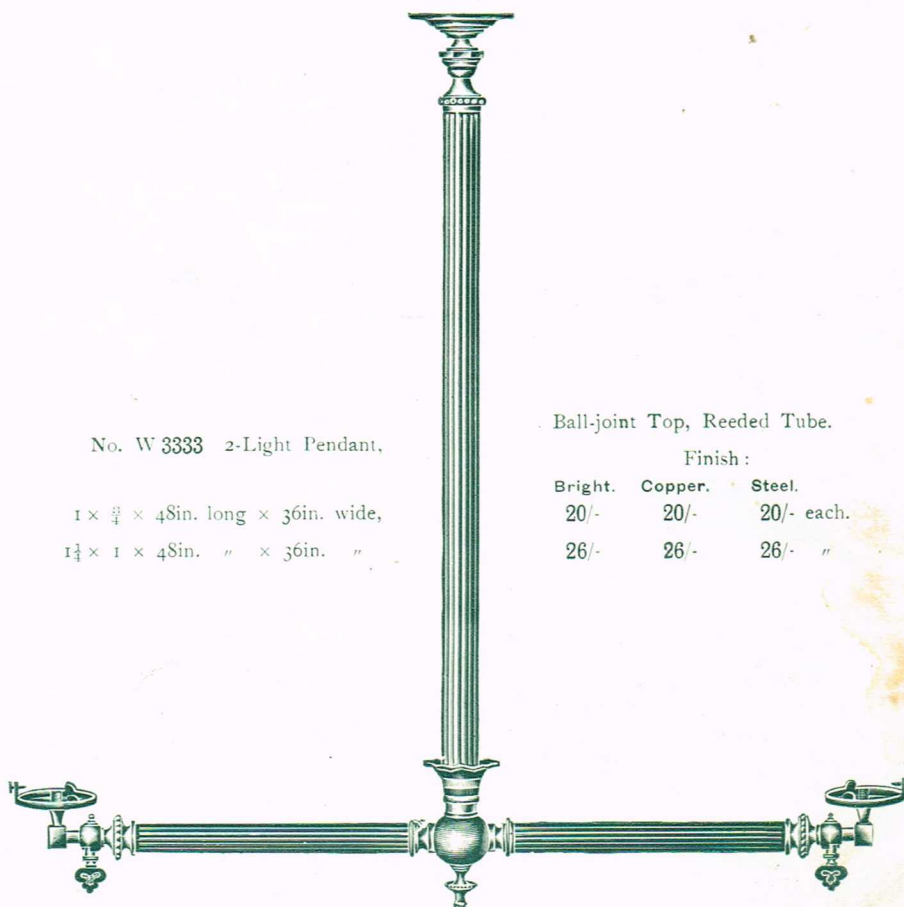
Stiff Top, Plain Tube.

Finish :

Bright.	Copper.	Steel.
9/-	9/-	9/- each.
11/-	11/-	11/- "
12/6	12/6	12/6 "
16/6	16/6	16/6 "

Ball joint extra,

$\frac{9}{16}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$ in.
1/6	2/3	3/-	3/6 each.



No. W 3333 2-Light Pendant,

$1 \times \frac{3}{4} \times 48$  in. long  $\times$  36 in. wide,  
 $1\frac{1}{4} \times 1 \times 48$  in. "  $\times$  36 in. "

Ball-joint Top, Reeded Tube.

Finish :

Bright.	Copper.	Steel.
20/-	20/-	20/- each.
26/-	26/-	26/- "

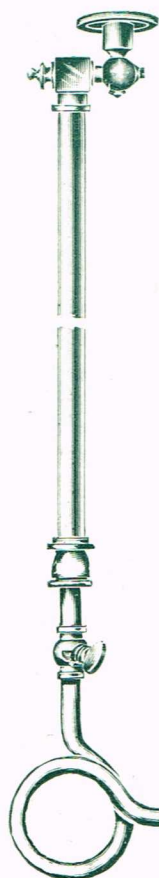
Glasses, Incandescent Burners and Chimneys charged extra.

**Special Discount off above prices for quantities.**



## GAS FITTINGS, BRASS.

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No. W 3100  
Stuffing Box Slide Pendant.

In Bright,  
Copper, or Steel Colour.

**Ordinary Quality.**

× 36in. ...	52/- doz.
× 39in. ...	54/- "
× 42in. ...	56/- "
× 36in. ...	70/- "
× 39in. ...	72/6 "
× 42in. ...	75/- "

No. W 400

**Stronger Pattern.**

× 36in. ...	64/- doz.
× 39in. ...	66/- "
× 42in. ...	68/- "
× 36in. ...	78/6 "
× 39in. ...	81/- "
× 42in. ...	83/6 "



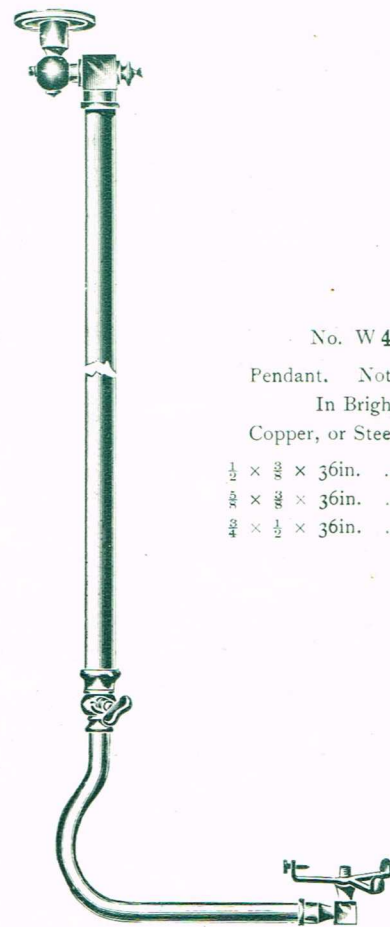
No. W 601 S

Harp Pendant. Stiff Top.

$\frac{1}{2}$  ×  $\frac{3}{4}$ in. Tube.

**Finish:**

Bright.	Copper.	Steel.
63/-	63/-	63/- doz.

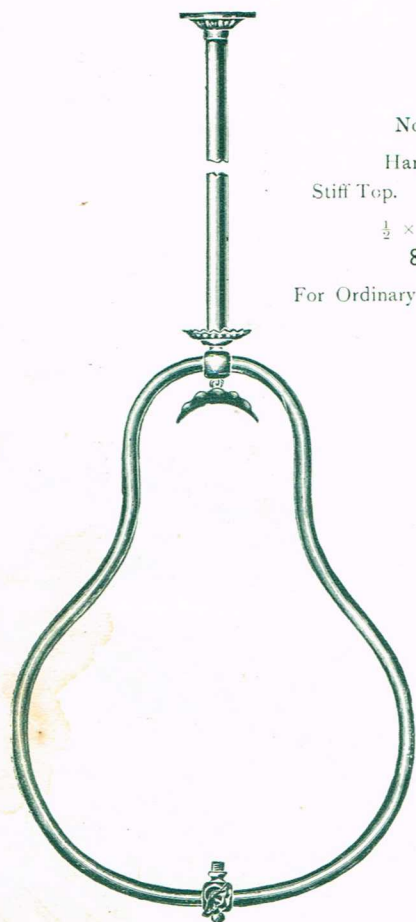


No. W 401

Pendant. Not to Slide.

In Bright,  
Copper, or Steel Colour.

$\frac{1}{2}$ × $\frac{3}{4}$ × 36in. ...	49/- doz.
$\frac{3}{8}$ × $\frac{3}{4}$ × 36in. ...	66/- "
$\frac{1}{2}$ × $\frac{1}{2}$ × 36in. ...	74/- "



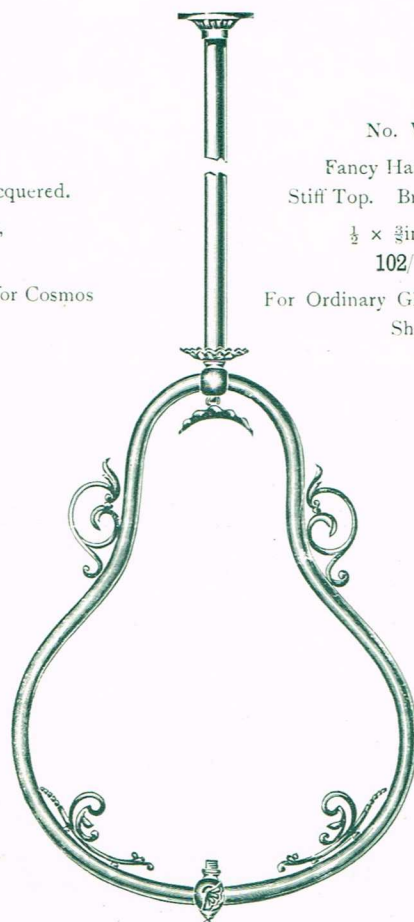
No. W 3301

Harp Pendant.

Stiff Top. Bright Lacquered.

$\frac{1}{2}$  ×  $\frac{3}{4}$ in. Tube,  
80/- doz.

For Ordinary Globe or for Cosmos  
Shade.



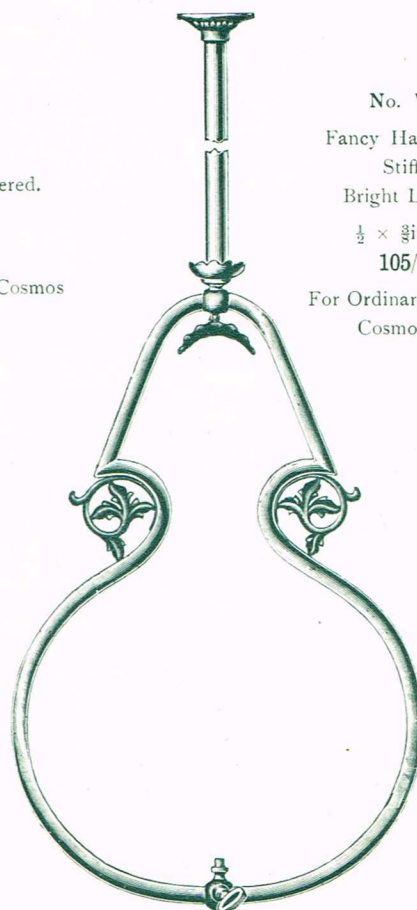
No. W 3378

Fancy Harp Pendant.

Stiff Top. Bright Lacquered.

$\frac{1}{2}$  ×  $\frac{3}{4}$ in. Tube,  
102/- doz.

For Ordinary Globe or for Cosmos  
Shade.



No. W 3377

Fancy Harp Pendant.

Stiff Top.

Bright Lacquered.

$\frac{1}{2}$  ×  $\frac{3}{4}$ in. Tube,  
105/- doz.

For Ordinary Globe or for  
Cosmos Shade.

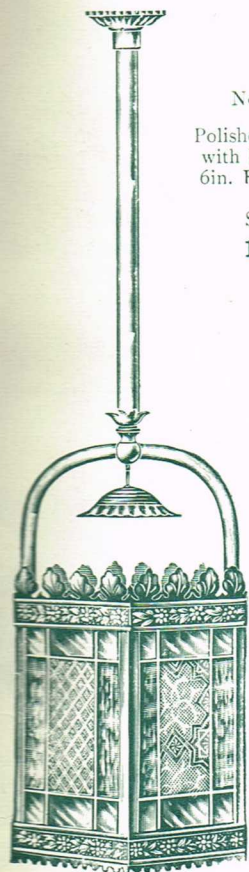
Shades, Chimneys and Incandescent Fittings extra.

**Special Discount off above prices for quantities.**

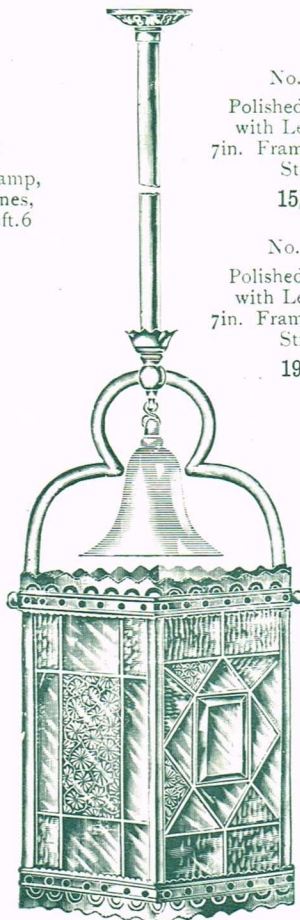


## GAS FITTINGS, BRASS.

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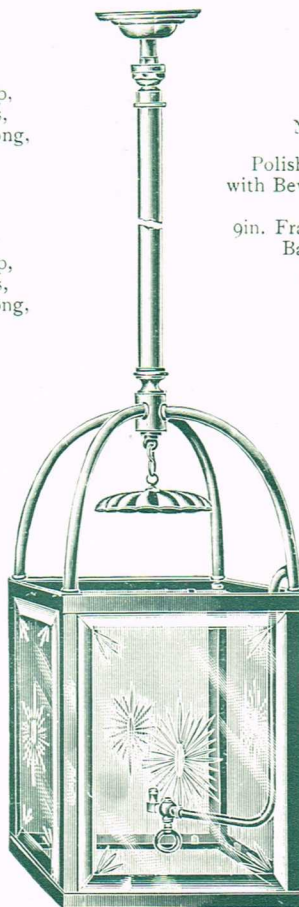


No. W 2561  
Polished Hall Lamp,  
with Leaded Panes,  
6in. Frame × 2ft.6  
long,  
Stiff Top,  
12/- each.

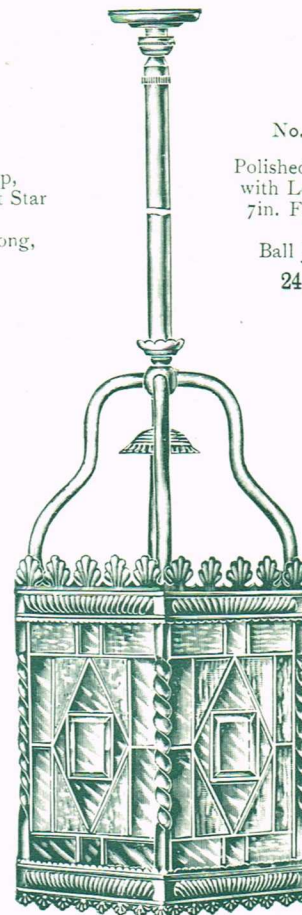


No. W 2076  
Polished Hall Lamp,  
with Leaded Panes,  
7in. Frame × 3ft. long,  
Stiff Top,  
15/6 each.

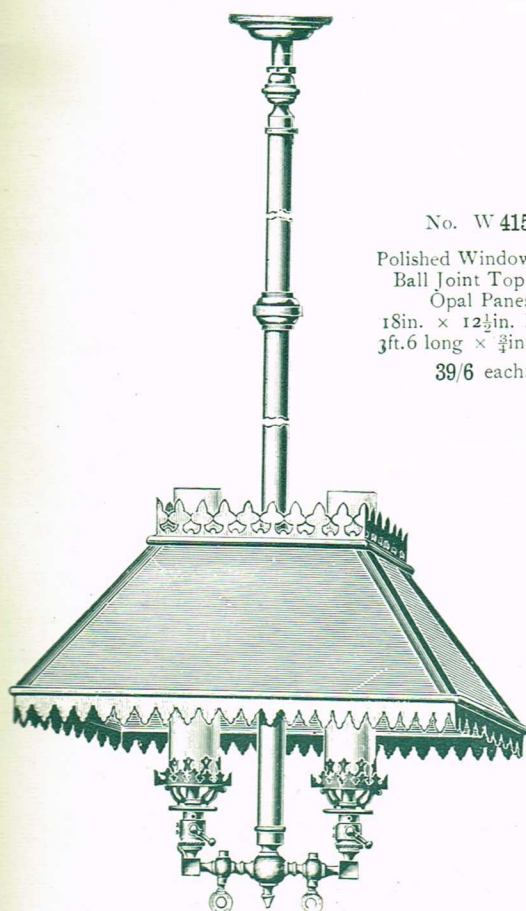
No. W 2087  
Polished Hall Lamp,  
with Leaded Panes,  
7in. Frame × 3ft. long,  
Stiff Top,  
19/- each.



No. W 2596  
Polished Hall Lamp,  
with Bevelled and Cut Star  
Panes,  
9in. Frame × 3ft.6 long,  
Ball Joint Top  
42/- each.



No. W 2906  
Polished Hall Lamp,  
with Leaded Panes,  
7in. Frame × 3ft.  
long,  
Ball Joint Top,  
24/- each.

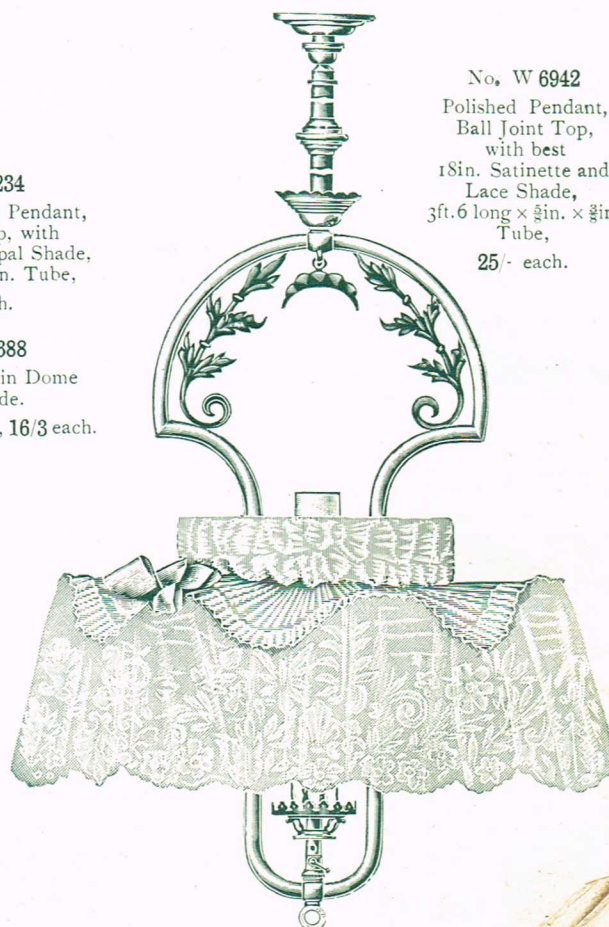


No. W 4150  
Polished Window Light,  
Ball Joint Top, with  
Opal Panes,  
18in. × 12½in. Frame,  
3ft.6 long × ¾in. Tube,  
39/6 each.



No. W 3234  
Polished 2-Light Pendant,  
Ball Joint Top, with  
16in. Crimped Opal Shade,  
3ft.6 long × ¾in. Tube,  
17/- each.

No. W 4388  
Ditto, with Plain Dome  
Opal Shade.  
12in., 14/6; 16in., 16/3 each.



No. W 6942  
Polished Pendant,  
Ball Joint Top,  
with best  
18in. Satinette and  
Lace Shade,  
3ft.6 long × ¾in. × ¾in.  
Tube,  
25/- each.

Shades, Chimneys and Incandescent Fittings extra.  
Special Discount off above prices for quantities.



## GAS FITTINGS, BRASS.

The illustrations shewn below are a selection only from our Gas Fittings Catalogue, which we shall be pleased to forward.



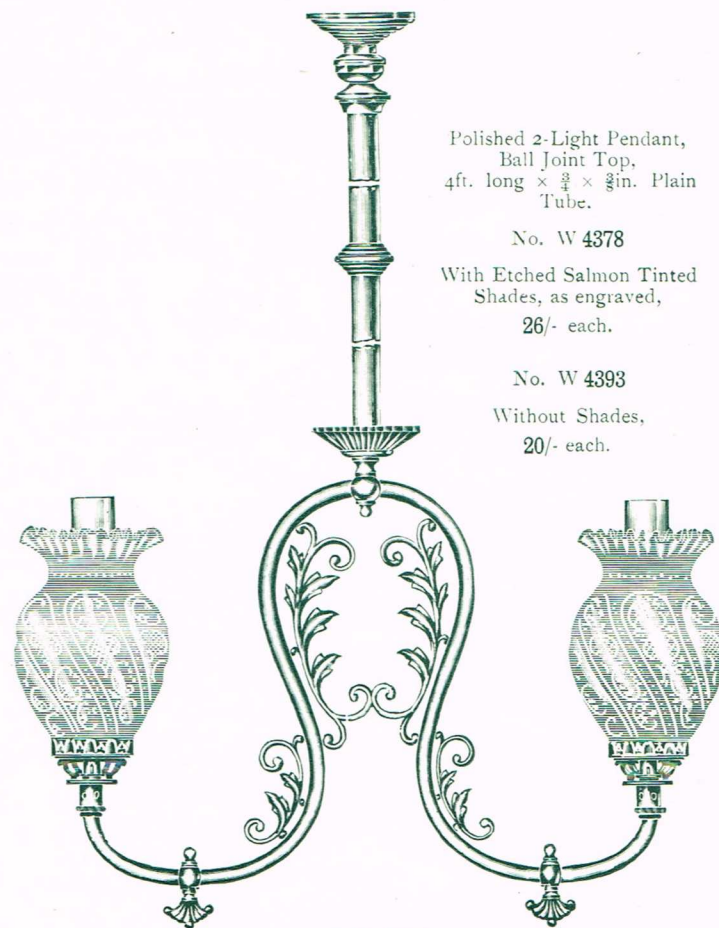
Polished 2-Light Pendant,  
Ball Joint Top,  
4ft. long  $\times \frac{3}{4} \times \frac{1}{8}$ in. Taper  
Tube Arms.

No. W 6975

With Etched Aurora Tinted  
Shades, as engraved,  
33/- each.

No. 6976

Without Shades,  
26/- each.



Polished 2-Light Pendant,  
Ball Joint Top,  
4ft. long  $\times \frac{3}{4} \times \frac{3}{8}$ in. Plain  
Tube.

No. W 4378

With Etched Salmon Tinted  
Shades, as engraved,  
26/- each.

No. W 4393

Without Shades,  
20/- each.



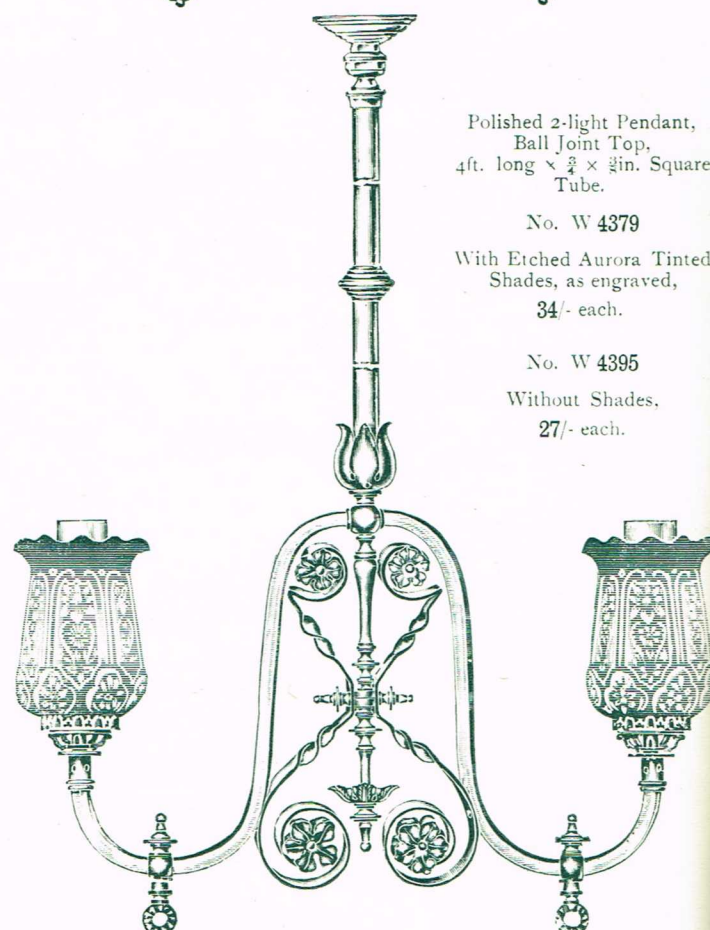
Polished 2-light Pendant,  
Ribbon Scrolls,  
Ball Joint Top,  
4ft. long  $\times \frac{3}{4} \times \frac{1}{8}$ in. Plain  
Tube.

No. W 6944

With Etched Aurora Tinted  
Shades, as engraved,  
37/- each.

No. W 6969

Without Shades,  
30/- each.



Polished 2-light Pendant,  
Ball Joint Top,  
4ft. long  $\times \frac{3}{4} \times \frac{3}{8}$ in. Square  
Tube.

No. W 4379

With Etched Aurora Tinted  
Shades, as engraved,  
34/- each.

No. W 4395

Without Shades,  
27/- each.

Glasses, Incandescent Burners and Chimneys charged extra.  
**Special Discount off above prices for quantities.**

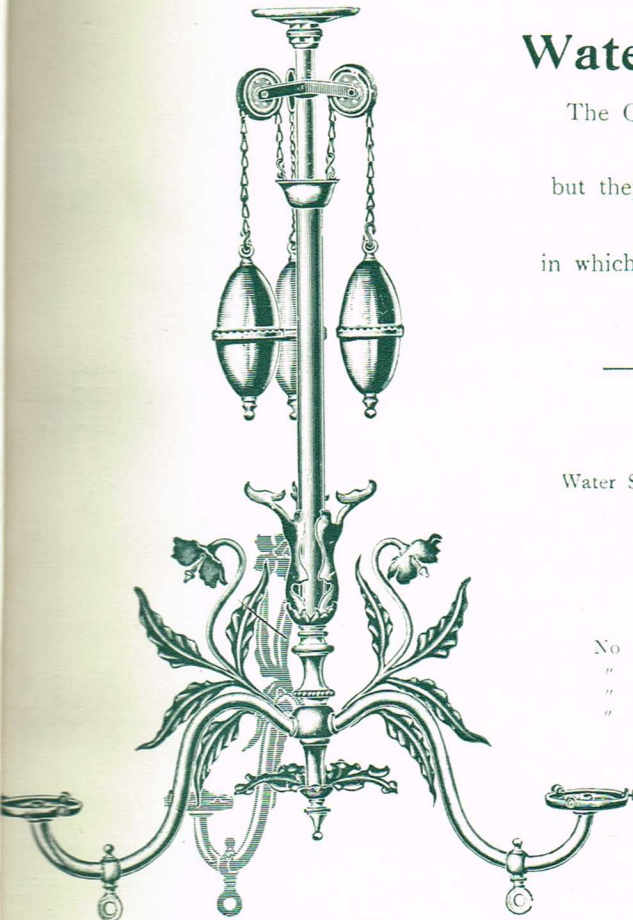


**GAS FITTINGS, BRASS.**

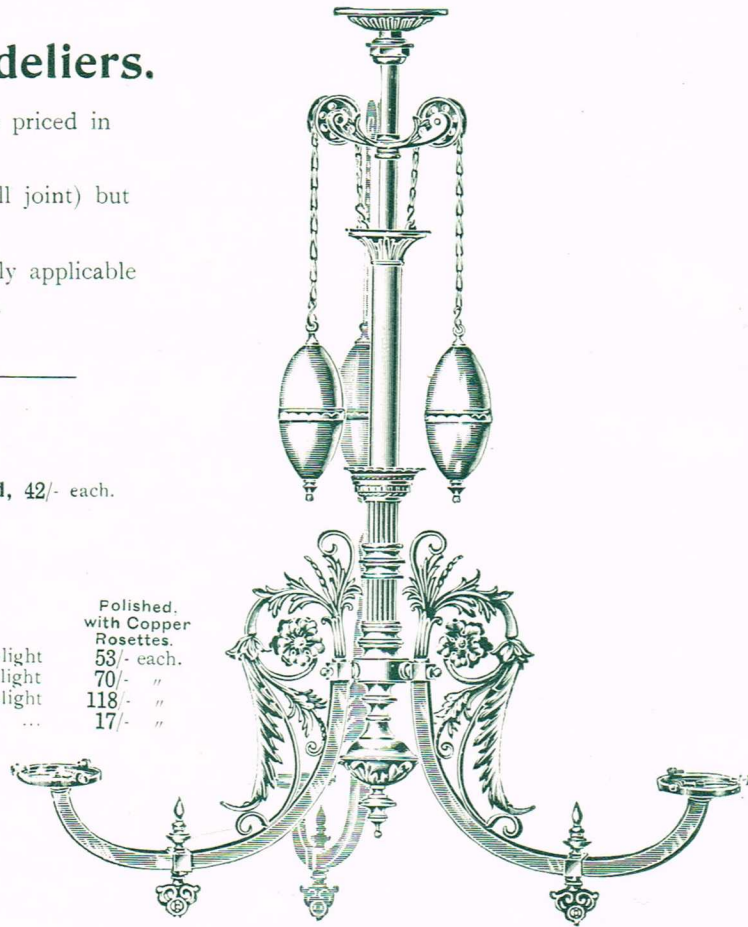
The illustrations shewn below are a selection only from our Gas Fittings Catalogue, which we shall be pleased to forward.

**Water Slide Chandeliers.**

The Chandeliers on this Sheet are priced in  
*Water Slide only,*  
but they may be had Stiff (with ball joint) but  
*Not to Slide,*  
in which latter form they are specially applicable  
for Incandescent Burners.



No. W 3230



No. W 3245

No. W 3230  
Water Slide, 4ft. long, 3-light, **Polished**, 42/- each.

No. W 3245 Water Slide, 4ft. long, 2-light  
" " " " " " 3-light  
" " " " " " 5-light  
" W 2978 Bracket to match ... ..

Polished,  
with Copper  
Rosettes.  
53/- each.  
70/- "  
118/- "  
17/- "



No. W 8317

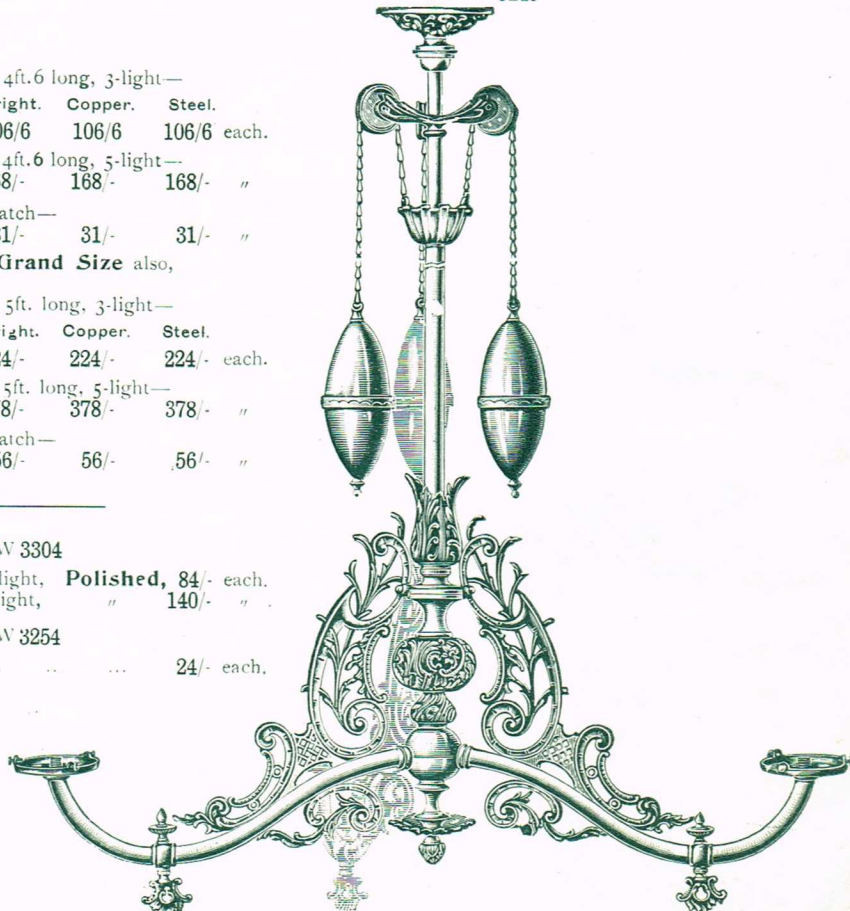
No. W 8317 Water Slide, 4ft. 6 long, 3-light—  
Finish: Bright. Copper. Steel.  
106/6 106/6 106/6 each.  
" " Water Slide, 4ft. 6 long, 5-light—  
168/- 168/- 168/- "  
" W 1468 Bracket to match—  
31/- 31/- 31/- "

This Chandelier is made in **Grand Size** also,  
as follows:—

No. W 8318 Water Slide, 5ft. long, 3-light—  
Finish: Bright. Copper. Steel.  
224/- 224/- 224/- each.  
" " Water Slide, 5ft. long, 5-light—  
378/- 378/- 378/- "  
" W 1658 Bracket to match—  
56/- 56/- 56/- "

No. W 3304  
Water Slide, 4ft. long, 3-light, **Polished**, 84/- each.  
" " " " " " 5-light, " 140/- "

No. W 3254  
Bracket to match ... .. 24/- each.



No. W 3304

Glasses charged extra.

**Special Discount off above prices for quantities.**



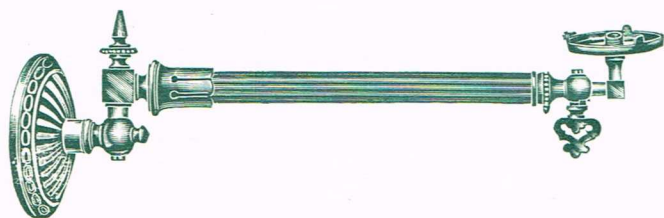
# GAS FITTINGS, BRASS.

The illustrations shewn below are a selection only from  
pleased to

our Gas Fittings Catalogue, which we shall be  
forward.

## Billiard

## Pendants.



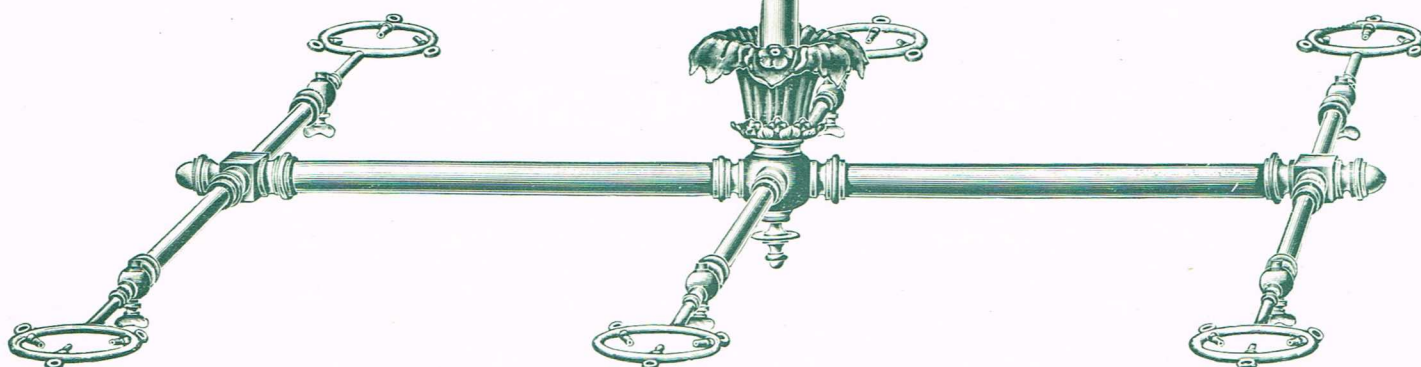
Single Bracket, Extra Strong, Reeded Tube.

		Finish: Bright.	Copper.	Steel.
No. W 2531	$\frac{3}{4}$ x 16in....	10/6	10/6	10/6 each.
" W 2542	1 x 18in....	13/6	13/6	13/6 "

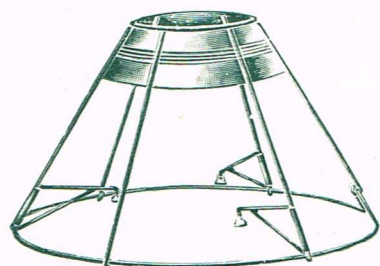


Single Bracket, Extra Strong, Reeded Tube.

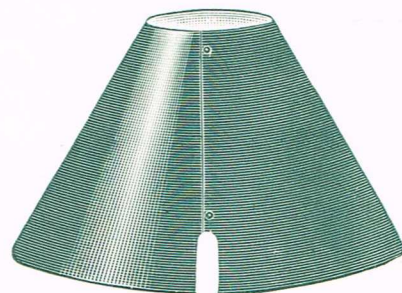
		Finish: Bright.	Copper.	Steel.
No. W 170	$\frac{3}{4}$ x 16in. ..	11/3	11/3	11/3 each.
" W 172	1 x 18in. ....	14/-	14/-	14/- "



No. W 388 Billiard Pendant, Iron Pipe Painted, Brass Mountings, Lacquered, 5ft. long, 1in. Down Rod x  $\frac{3}{4}$ in. Long Arms x  $\frac{3}{4}$ in. Cross Arms ... 4-light, 66/6 ; 6-light, 73/6 each.



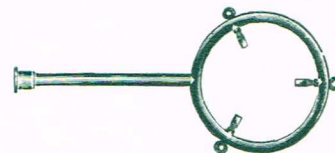
No. W 416—Wire Frame for Billiard Shade, 3/- each.



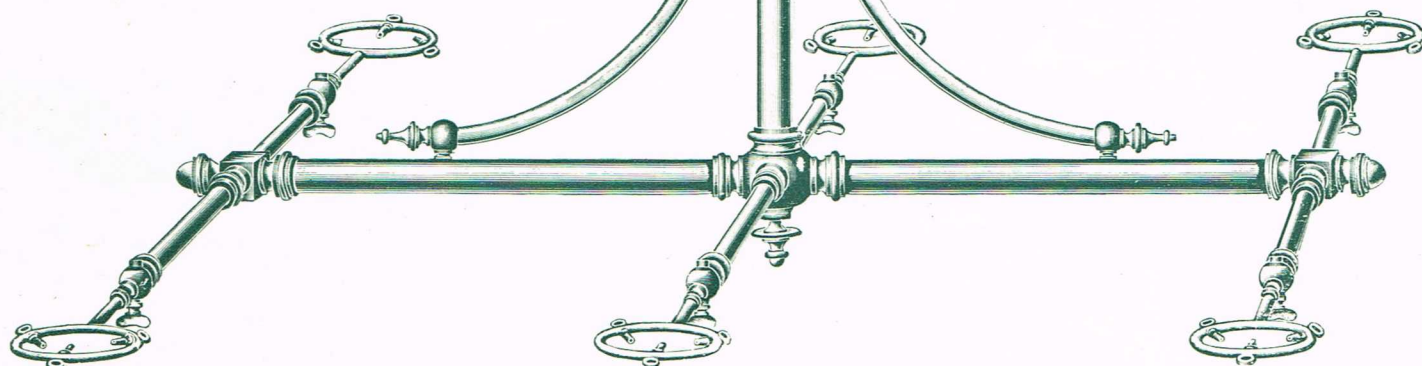
No. W 415 Green and White Paper Billiard Shade, 20 x 13 $\frac{1}{2}$  x 6in., 3/- each.



No. W 486 1-light Billiard Burner, 2/2 each.



No. W 452 3-light x 6in. Ring Burner, 4/3 each.



No. W 824 Billiard Pendant, Brass Tubes and Mountings, 5ft. long, 1 $\frac{1}{4}$ in. Down Rod x 1in. Long Arms x  $\frac{3}{4}$ in. Cross Arms x  $\frac{3}{4}$ in. Stretchers ... 4-light, 94/- ; 6-light, 106/6 each.

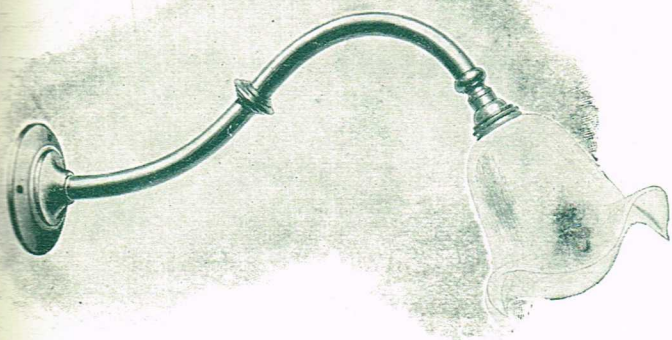
Burners, Frames and Shades extra.

**Special Discount off above prices for quantities.**



## ELECTRICAL FITTINGS.

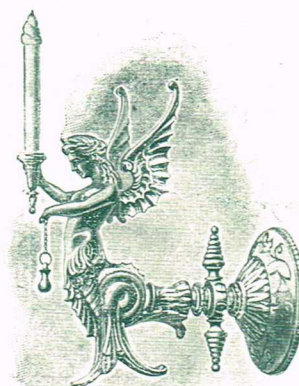
The following are an introduction only to our Electrical Fittings Book, which is replete with high-class artistic original designs. We shall be pleased to forward this catalogue on application.



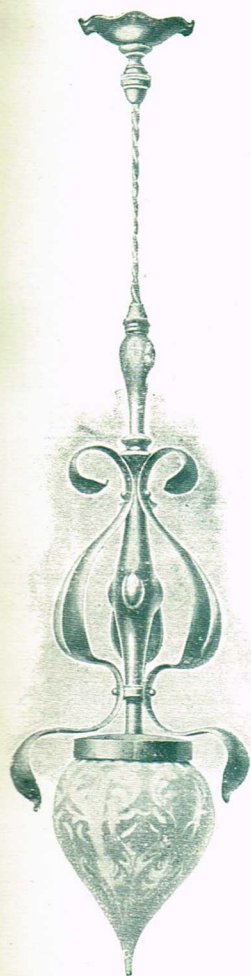
No. W 5350  
Polished Brass,  $\frac{3}{4} \times 9$  in., 27/6 per doz.



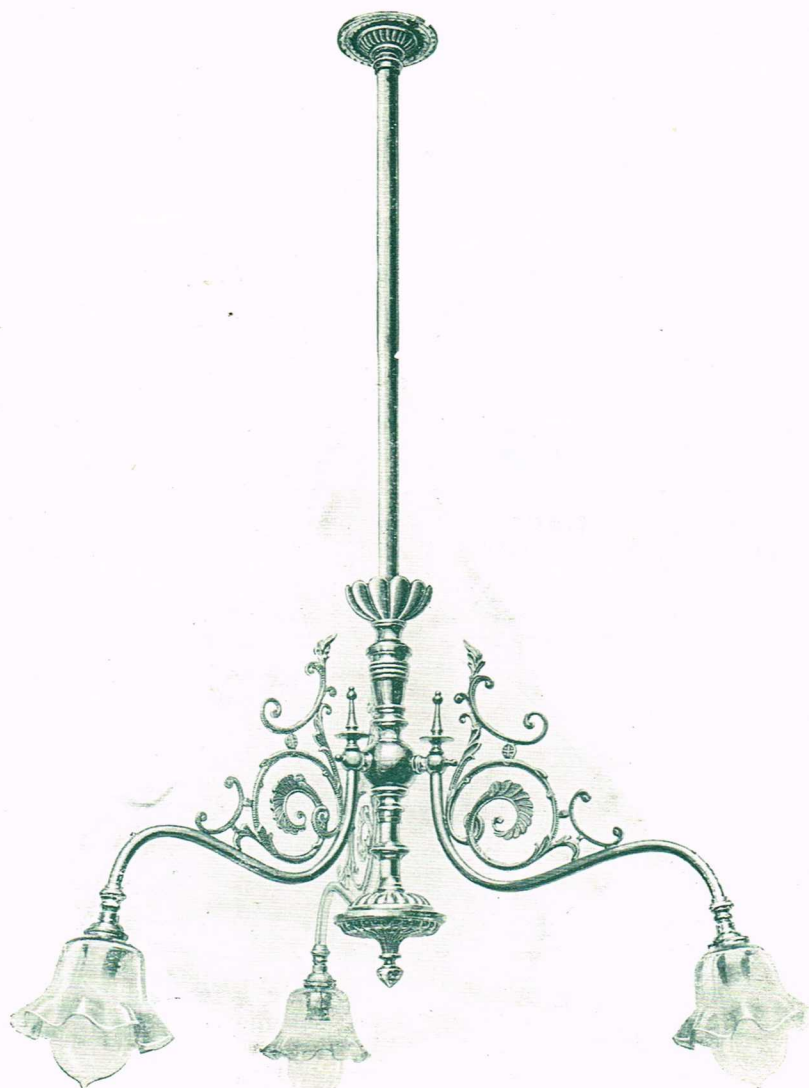
No. W 5351  
Polished Brass,  $\frac{3}{4} \times 3\frac{1}{2}$  in., 9/6 per doz.



No. W 5355  
Cast Brass, polished.  
7 in. Projection, 17/6 each.  
9 in. " 35/- "  
Oxydised Silver, 30% extra.

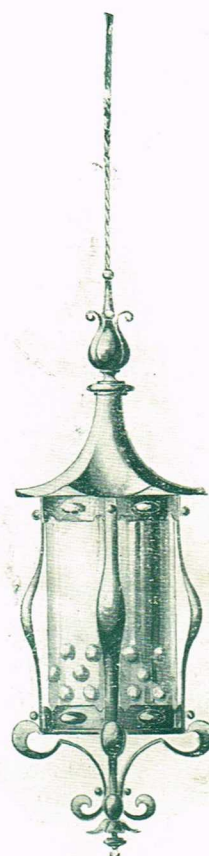


No. W 5352  
Hand-hammered, Polished Brass Finish.  
With Ceiling Plate, 22/6 each.



No. W 5354  
Cast Brass, Polished,  
3-light, with Ceiling Plate and Rod, 19 in. Spread, 25/- each.

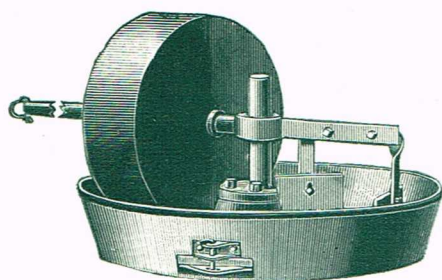
Glass extra, excepting No. W 5353.



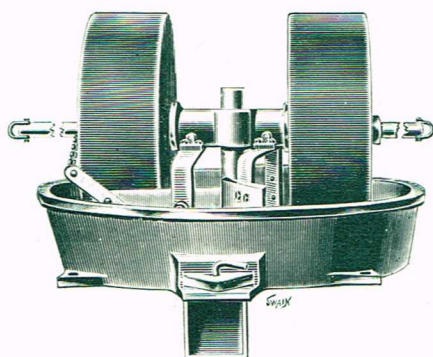
No. W 5353  
Hand-hammered, Polished Brass Finish.  
With Smoked Opalescent Glass  
and Ceiling Plate, 35/- each.



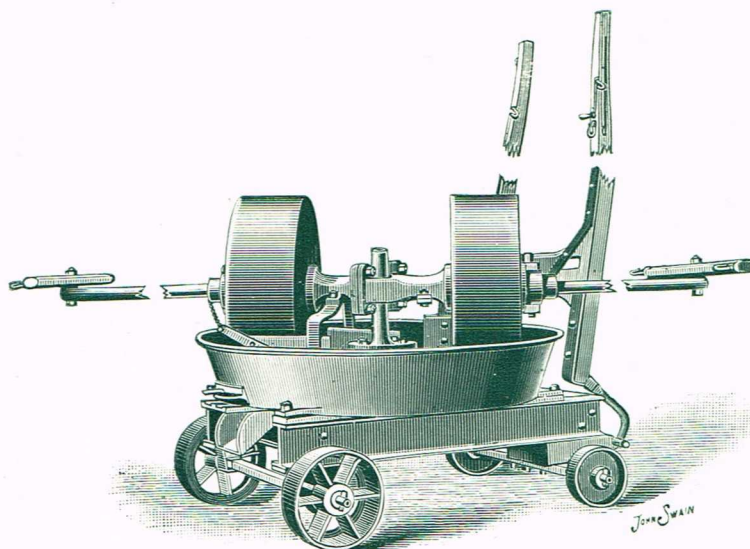
# STATIONARY PAN MORTAR MILLS. TO WORK BY HORSE-POWER.



No. P 7000  
With One Runner.



No. P 7001  
With Two Runners.



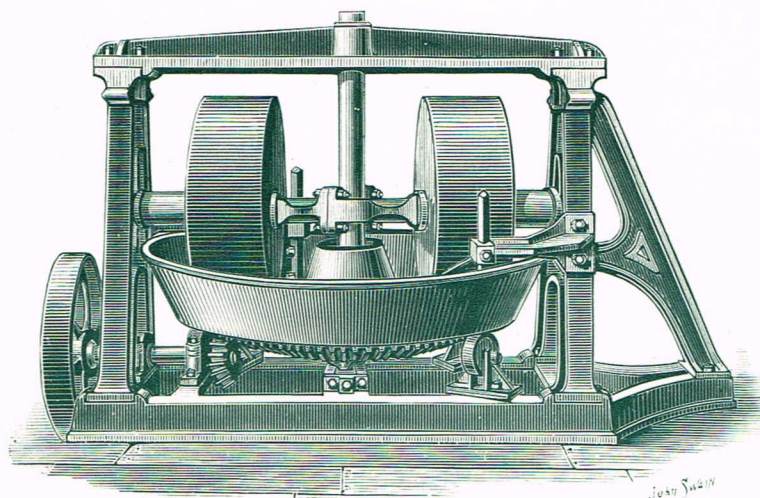
No. P 7002  
PORTABLE MILL.

Mounted on a strong steel frame, with travelling wheels, lock and shafts. Strong swingle-trees for attaching the horses are fitted to the draw-bars.

Nos. P 7000 and P 7001 are fitted with wrought-iron draw bar and shackle for attaching horse or cattle. There is a false bottom in the pan with a sliding door covering an opening, through which the material is discharged when ground. With No. P 7001 Machine a cast-iron centre is supplied, to which both draw-bars and scraper bars are securely attached.

No. P 7000	Runners {	Diameter of pan at top outside	...	...	...	4	4½	5	5½	6	6½	7 feet.
" P 7001		Diameter	...	...	...	30	32	36	36	39	39	42 inches.
" and P 7002		Width on face	...	...	...	9	10	12	13	14	15	16 "
" P 7000	Approximate weight with one runner		...	...	...	25	30	35	40	48	57	68 cwts.
" P 7002	Complete as illustration. Approximate total weight		...	...	...	—	—	62	68	77	89	103 "

## UNDER-GEARED REVOLVING PAN MORTAR MILL.



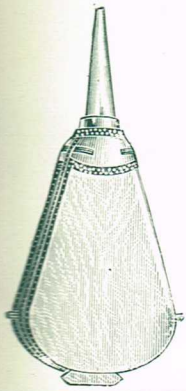
No. P 7003

Fitted on cast-iron box foundation needing no timber bed.

Diameter of pan at top outside	...	...	4	4½	5	5½	6	6½	7	7½	8	9 feet.
Approximate total weight of Mill	...	...	49	54	68	75	93	107	122	136	157	177 cwts.

SPECIAL PRICES QUOTED FOR ABOVE ON APPLICATION.

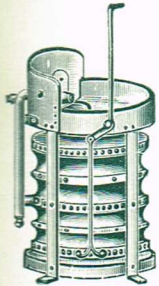


No. P 7004 **SMITHS' BELLOWS.**

No. P 7004 is best warranted, extra leathered, and double-nailed.

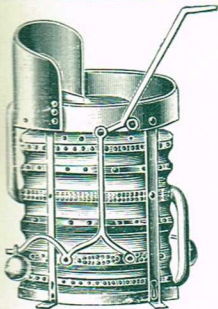
" P 7005 " " " " " " with two frames in top.

	Sizes	22	24	26	28	30	32	36	40	42 in.
No. P 7004	...	46/-	54/6	64/-	71/6	85/-	98/-	145/-	235/-	280/- doz.
" P 7005	...	51/-	60/-	70/-	78/-	94/-	108/-	165/-	258/-	308/- "

No. P 7006 **CIRCULAR PORTABLE FORGE, SINGLE BLAST.**

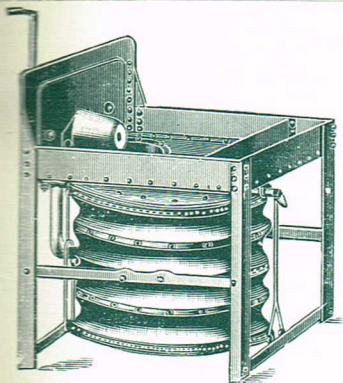
No. P 7006	16in. diameter, 28in. high, 14in. bellows	...	...	...	...	...	...	...	£2 9 6 each.
" P 7007	18in. " 28in. " 16in. "	...	...	...	...	...	...	...	2 11 0 "
" P 7008	20in. " 28in. " 18in. "	...	...	...	...	...	...	...	2 13 0 "
" P 7009	22in. " 28in. " 20in. "	...	...	...	...	...	...	...	2 16 0 "

If with treadle for foot, 5/- each extra.

No. P 7010 **CIRCULAR PORTABLE FORGE, DOUBLE BLAST.**

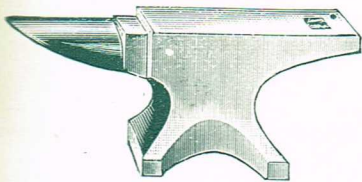
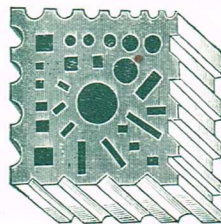
No. P 7010	16in. diameter, 34in. high, 16in. bellows	...	...	...	...	...	...	...	£4 13 6 each.
" P 7011	18in. " 34in. " 18in. "	...	...	...	...	...	...	...	5 15 6 "
" P 7012	20in. " 34in. " 20in. "	...	...	...	...	...	...	...	6 18 0 "
" P 7013	22in. " 34in. " 22in. "	...	...	...	...	...	...	...	8 0 0 "

Balance Weights, 8/6 per set extra.

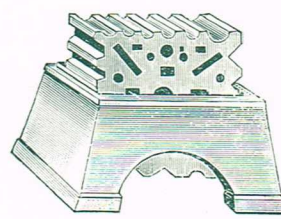
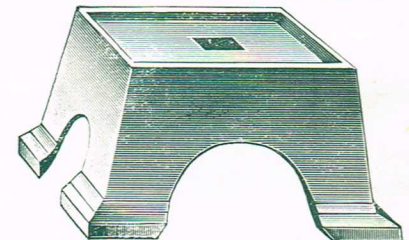
No. P 7014 **IMPROVED WROUGHT-IRON PORTABLE FORGE, WITH CIRCULAR BELLOWS.**

2ft. 3 long, 1ft. 10 wide, 2ft. 10 high, 22in. bellows...	...	...	...	...	...	...	...	...	£6 1 0 each.
2ft. 5 " 2ft. 0 " 2ft. 10 " 24in. "	...	...	...	...	...	...	...	...	6 19 0 "
2ft. 9 " 2ft. 3 " 2ft. 10 " 26in. "	...	...	...	...	...	...	...	...	7 16 0 "
2ft. 11 " 2ft. 6 " 2ft. 10 " 28in. "	...	...	...	...	...	...	...	...	10 10 0 "
3ft. 0 " 2ft. 8 " 3ft. 0 " 30in. "	...	...	...	...	...	...	...	...	12 6 6 "

We can strongly recommend this Forge for all ordinary purposes; it is very compact and powerful, and will give every satisfaction.

No. P 7015 **Smiths' Anvil.**London Pattern, Best Quality.  
84lbs. and upwards ... 43/- per cwt.No. P 7016 **Swage Blocks and Stands.**

Price, 17/- per cwt.

No. 7017 **Anvil Stand.**

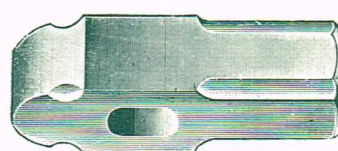
Price, 17/- per cwt.

**Engineers' Best Cast Steel Hammers.**No. P 7018  
Ball Pane.No. P 7019  
Straight Pane.No. P 7020  
Cross Pane.

Price, 1lb. and above, 8½d. per lb.

**Warranted Solid Steel Sledge Hammers.**

No. P 7021 Cross Pane.



No. P 7022 Double Face.



Sizes 6 to 16lbs., 5½d. per lb.



## SMITHS' TOOLS.



Set Hammer.

No. P 7023



Square Punch.

No. P 7024



Round Punch.

No. P 7025



Top and Bottom Swage.

No. P 7026



Cold Set.

No. P 7027



Top and Bottom Fuller

No. P 7028



Hot Set.

No. P 7029

Bent Cast Steel Smiths' Forge Tools, 3/6 each.

## SMITHS' TONGS.



Side Tongs.

No. P 7030



Anvil Tongs.

No. P 7031



Hollow Bit Tongs.

No. P 7032



Open Tongs.

No. P 7033



Square Tongs.

No. P 7034

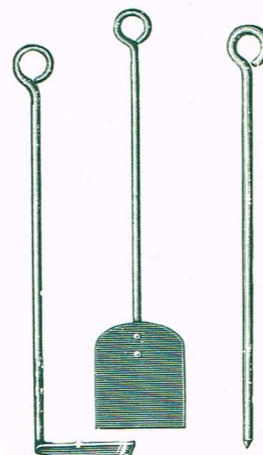


Close Tongs.

No. P 7035

Price, 2/6 each.

## Smith's Rake, Poker and Shovel.



No. P 7036

Price, 7½d. per lb.

## TAPER AND PLUG TAPS (WHITWORTH) WARRANTED.

Smith's Tap.

Engineer's Taper and Plug Taps.

Engineer's Fluted Rimer.



No. P 7037



No. P 7038



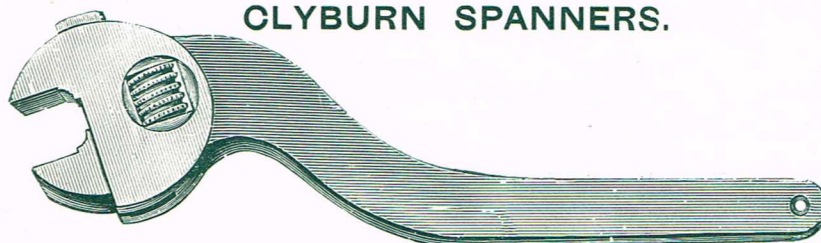
No. P 7039



No. P 7040

		Sizes																	
		1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2	2 1/4
		inch.																	
No. P 7037	Smith's Tap, Taper, or Plug	—	—	1/3	1/4	1/6	1/8	1/9	2/2	2/5	2/10	3/3	3/10	4/8	5/2	5/8	8/6	10/9	—
" P 7038	Engineer's Tap, Taper, or Plug	1/3	1/3	1/3	1/3	1/5	1/7	1/9	2/2	2/10	3/4	4/3	5/2	6/-	7/3	8/3	12/9	17/-	21/9
" P 7040	Fluted Rimer	1/7	1/7	1/11	1/11	2/3	2/6	2/10	3/10	4/8	5/6	6/-	7/3	8/-	9/6	10/9	14/6	19/-	26/-

## CLYBURN SPANNERS.



No. P 7041

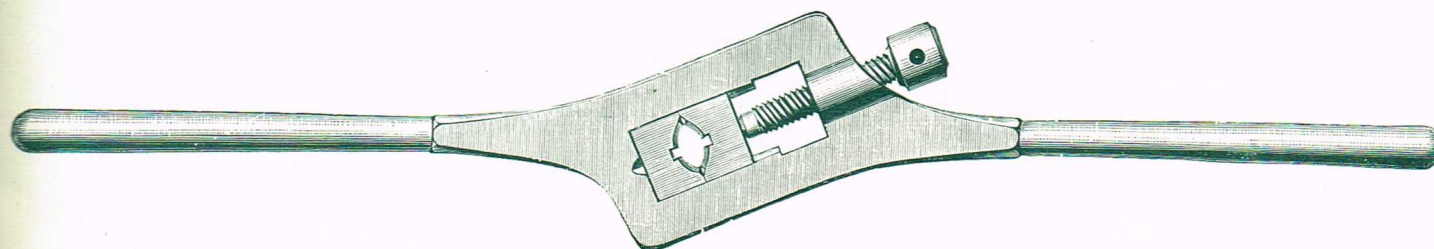
		Length ... To span ...											
		4	5	6	8	10	12	14	15	16	18	21	24
		3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3
Price	...	4/3	4/3	4/3	5/2	6/-	7/8	8/6	9/-	9/8	10/3	12/-	13/-

30 inch.  
3 "  
21/9 each.



**ENGINEERS' SCREW STOCKS, DIES, AND TAPS.**

WHITWORTH'S STANDARD THREAD.

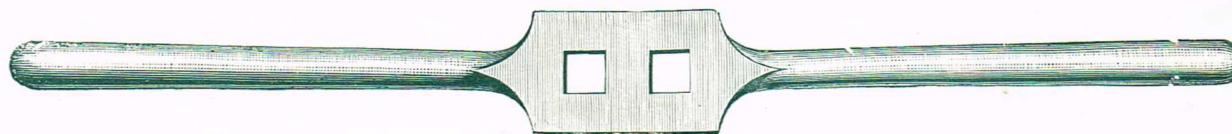


No. P7042

To Screw, Inch.	With Taper and Plug Taps to each size.	To Screw, inch.	With Taper and Plug Taps to each size.	To Screw, inch.	With Taper and Plug Taps to each size.
$\frac{1}{4}$ in. ...	£ s. d. 0 15 3	$\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{3}{8}$ , $\frac{5}{16}$ , $\frac{1}{4}$ in. ...	£ s. d. 1 16 6	$\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ , $\frac{1}{32}$ , $\frac{1}{64}$ in. ...	£ s. d. 3 11 0
$\frac{1}{4}$ , $\frac{3}{16}$ in. ...	0 18 9	$\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{3}{8}$ , $\frac{5}{16}$ , $\frac{1}{4}$ in. ...	2 3 0	$\frac{1}{8}$ , $\frac{1}{16}$ , $\frac{1}{32}$ , $\frac{1}{64}$ in. ...	3 16 6
$\frac{5}{16}$ , $\frac{1}{4}$ in. ...	0 19 3	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	1 10 6	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ in. ...	3 7 3
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ in. ...	1 3 0	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ in. ...	1 16 6	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	3 12 0
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ , $\frac{1}{8}$ in. ...	1 6 9	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ in. ...	2 3 0	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	4 1 3
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ , $\frac{1}{8}$ in. ...	1 8 6	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ in. ...	2 11 3	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	4 6 6
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ , $\frac{1}{8}$ in. ...	1 2 3	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	2 1 3	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	5 1 0
$\frac{5}{16}$ , $\frac{1}{4}$ in. ...	1 3 0	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	2 11 3	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	4 19 6
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ in. ...	1 8 6	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	2 3 0	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	5 6 6
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ in. ...	1 9 0	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	2 11 3	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	5 19 6
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ , $\frac{1}{8}$ in. ...	1 15 0	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	2 19 0	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	7 2 6
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ , $\frac{1}{8}$ in. ...	1 5 0	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	2 9 0	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	6 2 6
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ in. ...	1 9 9	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	2 18 3	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	6 10 0
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ in. ...	1 10 6	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	3 7 3	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	7 16 0
$\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ in. ...	1 12 9	$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	2 9 0	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	9 3 6

**ENGINEERS' TAP WRENCHES,**

WITH CASE-HARDENED HOLES.



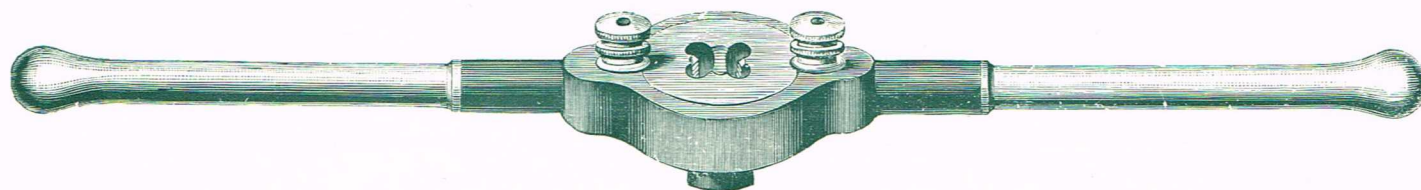
No. P7045

To take Taps	Price each.	To take Taps	Price each.	To take Taps	Price each.	To take Taps	Price each.
$\frac{1}{4}$ in. ...	£ s. d. 0 2 4	$\frac{5}{8}$ , $\frac{1}{2}$ in. ...	£ s. d. 0 5 6	$\frac{1}{4}$ , $\frac{1}{8}$ in. ...	£ s. d. 0 11 0	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ in. ...	£ s. d. 1 2 6
$\frac{1}{4}$ , $\frac{3}{16}$ in. ...	0 2 10	$\frac{5}{8}$ , $\frac{1}{2}$ in. ...	0 7 0	$\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	0 11 0	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	1 2 6
$\frac{1}{4}$ , $\frac{3}{16}$ in. ...	0 3 3	$\frac{5}{8}$ , $\frac{1}{2}$ in. ...	0 8 6	$\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	0 13 3	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	1 6 3
$\frac{1}{4}$ , $\frac{3}{16}$ in. ...	0 3 9	$\frac{5}{8}$ , $\frac{1}{2}$ in. ...	0 9 3	$\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	0 15 0	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	1 6 3
$\frac{1}{4}$ , $\frac{3}{16}$ in. ...	0 4 9	$\frac{5}{8}$ , $\frac{1}{2}$ in. ...	0 9 3	$\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	0 15 0	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	1 17 6
$\frac{1}{4}$ , $\frac{3}{16}$ in. ...	0 4 9	$\frac{5}{8}$ , $\frac{1}{2}$ in. ...	0 9 3	$\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	0 17 0	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	1 17 6
$\frac{1}{4}$ , $\frac{3}{16}$ in. ...	0 4 9	$\frac{5}{8}$ , $\frac{1}{2}$ in. ...	0 9 3	$\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	0 18 9	$\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ , $\frac{1}{16}$ in. ...	1 17 6



**SOLID DIE STOCKS,**

FOR SCREWING IRON GAS TUBE AT ONCE OVER.

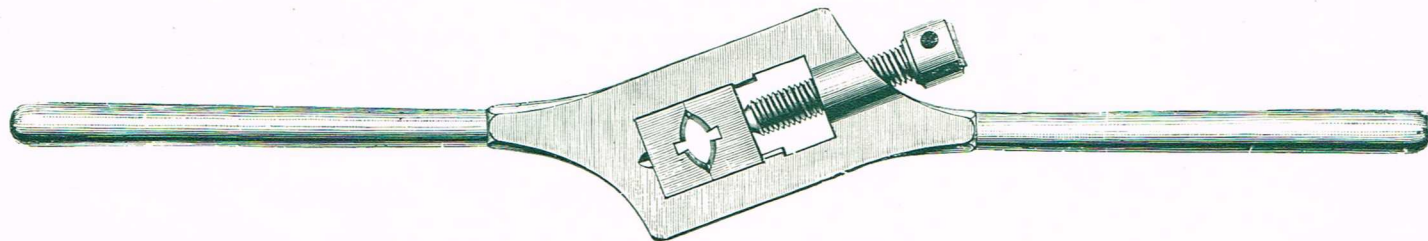


No. P 7043

To Screw, Inch.	Without Taps.	To Screw, Inch.	Without Taps.	To Screw, Inch.	Without Taps.
	£ s. d.		£ s. d.		£ s. d.
$\frac{3}{8}$ , $\frac{1}{4}$ in. ...	0 14 6	1, $\frac{3}{4}$ , $\frac{1}{2}$ , $\frac{3}{8}$ in. ...	2 11 0	$1\frac{3}{4}$ , $1\frac{1}{2}$ , $1\frac{1}{4}$ , 1 in. ...	6 1 6
$\frac{3}{8}$ , $\frac{1}{4}$ , $\frac{1}{8}$ in. ...	0 19 6	1, $\frac{3}{4}$ , $\frac{1}{2}$ , $\frac{3}{8}$ , $\frac{1}{4}$ in. ...	3 0 9	2, $1\frac{3}{4}$ , $1\frac{1}{2}$ , $1\frac{1}{4}$ in. ...	6 3 6
$\frac{1}{2}$ , $\frac{3}{8}$ in. ...	1 1 9	$1\frac{1}{4}$ , 1 in. ...	2 7 3	2, $1\frac{3}{4}$ , $1\frac{1}{2}$ , $1\frac{1}{4}$ , 1 in. ...	7 5 0
$\frac{1}{2}$ , $\frac{3}{8}$ , $\frac{1}{4}$ in. ...	1 5 3	$1\frac{1}{4}$ , 1, $\frac{3}{4}$ in. ...	3 0 9	$2\frac{1}{4}$ , 2, $1\frac{1}{2}$ , $1\frac{1}{4}$ in. ...	8 0 9
$\frac{1}{2}$ , $\frac{3}{8}$ , $\frac{1}{4}$ , $\frac{1}{8}$ in. ...	1 11 0	$1\frac{1}{4}$ , 1, $\frac{3}{4}$ , $\frac{1}{2}$ in. ...	3 13 6	$2\frac{1}{2}$ , $2\frac{1}{4}$ , 2 in. ...	8 7 6
$\frac{3}{4}$ , $\frac{1}{2}$ in. ...	1 9 6	$1\frac{1}{2}$ , $1\frac{1}{4}$ , 1 ...	4 1 3	$2\frac{1}{2}$ , $2\frac{1}{4}$ , 2, $1\frac{1}{2}$ in. ...	9 17 3
$\frac{3}{4}$ , $\frac{1}{2}$ , $\frac{3}{8}$ , $\frac{1}{4}$ in. ...	2 4 0	$1\frac{1}{2}$ , $1\frac{1}{4}$ , 1, $\frac{3}{4}$ in. ...	4 18 3	3, $2\frac{1}{2}$ in. ...	10 8 6
1, $\frac{3}{4}$ , $\frac{1}{2}$ in. ...	2 1 9	$1\frac{3}{4}$ , $1\frac{1}{2}$ , $1\frac{1}{4}$ in. ...	5 1 0	3, $2\frac{1}{2}$ , 2 in. ...	12 6 0

**SMITHS' SCREW STOCKS AND DIES,**

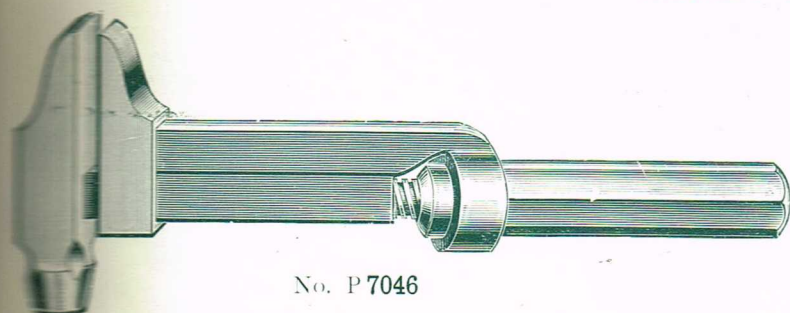
WITH FLAT HEAD TAPER AND PLUG TAPS TO EACH SIZE (not to drop through Nuts).



No. P 7044

To Screw, Inch.	With Flat Head Taper and Plug Taps to each size.	To Screw, Inch.	With Flat Head Taper and Plug Taps to each size.	To Screw, Inch.	With Flat Head Taper and Plug Taps to each size.
	£ s. d.		£ s. d.		£ s. d.
$\frac{3}{8}$ , $\frac{1}{4}$ in. ...	0 13 6	1, $\frac{3}{4}$ , $\frac{5}{8}$ in. ...	1 18 6	$1\frac{1}{2}$ , $1\frac{1}{4}$ , $1\frac{1}{8}$ , 1 in. ...	3 12 0
$\frac{3}{8}$ , $\frac{5}{16}$ , $\frac{1}{4}$ in. ...	0 17 0	1, $\frac{7}{8}$ , $\frac{3}{4}$ in. ...	1 18 6	$1\frac{1}{2}$ , $1\frac{3}{8}$ , $1\frac{1}{4}$ , $1\frac{1}{8}$ in. ...	3 17 0
$\frac{3}{8}$ , $\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{5}{16}$ in. ...	1 0 6	1, $\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	2 5 0	$1\frac{1}{2}$ , $1\frac{1}{4}$ , 1, $\frac{7}{8}$ , $\frac{3}{4}$ in. ...	4 1 6
$\frac{3}{8}$ , $\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{3}{16}$ , $\frac{1}{8}$ in. ...	1 3 9	1, $\frac{7}{8}$ , $\frac{3}{4}$ , $\frac{5}{8}$ in. ...	2 5 0	$1\frac{1}{2}$ , $1\frac{3}{8}$ , $1\frac{1}{4}$ , $1\frac{1}{8}$ , 1 in. ...	4 10 0
$\frac{1}{2}$ , $\frac{3}{8}$ , $\frac{1}{4}$ in. ...	0 18 3	1, $\frac{7}{8}$ , $\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	2 12 6	$1\frac{3}{4}$ , $1\frac{1}{2}$ , $1\frac{1}{4}$ in. ...	4 8 6
$\frac{1}{2}$ , $\frac{7}{16}$ , $\frac{3}{8}$ in. ...	0 19 6	$1\frac{1}{8}$ , 1, $\frac{7}{8}$ in. ...	2 1 0	$1\frac{3}{4}$ , $1\frac{5}{8}$ , $1\frac{1}{2}$ in. ...	4 14 6
$\frac{1}{2}$ , $\frac{3}{8}$ , $\frac{5}{16}$ , $\frac{1}{4}$ in. ...	1 3 0	$1\frac{1}{8}$ , 1, $\frac{7}{8}$ , $\frac{3}{4}$ in. ...	2 9 0	$1\frac{3}{4}$ , $1\frac{1}{2}$ , $1\frac{1}{4}$ , $1\frac{1}{8}$ in. ...	5 0 0
$\frac{1}{2}$ , $\frac{7}{16}$ , $\frac{3}{8}$ , $\frac{5}{16}$ , $\frac{1}{4}$ in. ...	1 7 3	$1\frac{1}{8}$ , 1, $\frac{7}{8}$ , $\frac{3}{4}$ , $\frac{5}{8}$ in. ...	2 17 0	$1\frac{3}{4}$ , $1\frac{5}{8}$ , $1\frac{1}{2}$ , $1\frac{3}{8}$ , $1\frac{1}{4}$ in. ...	5 11 0
$\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{3}{8}$ in. ...	1 1 9	$1\frac{1}{4}$ , 1, $\frac{3}{4}$ in. ...	2 0 6	2, $1\frac{1}{2}$ , $1\frac{1}{4}$ in. ...	5 8 9
$\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{3}{8}$ , $\frac{1}{4}$ in. ...	1 6 6	$1\frac{1}{4}$ , $1\frac{1}{8}$ , 1 in. ...	2 5 0	2, $1\frac{3}{4}$ , $1\frac{1}{2}$ in. ...	5 15 6
$\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{7}{16}$ , $\frac{3}{8}$ in. ...	1 7 3	$1\frac{1}{4}$ , 1, $\frac{3}{4}$ , $\frac{5}{8}$ in. ...	2 12 6	2, $1\frac{3}{4}$ , $1\frac{1}{4}$ in. ...	6 4 6
$\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{3}{8}$ , $\frac{5}{16}$ in. ...	1 11 6	$1\frac{1}{4}$ , 1, $\frac{7}{8}$ , $\frac{3}{4}$ in. ...	2 13 0	2, $1\frac{1}{2}$ , $1\frac{1}{4}$ , $1\frac{1}{8}$ in. ...	6 9 0
$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	1 6 0	$1\frac{1}{4}$ , $1\frac{1}{8}$ , 1, $\frac{7}{8}$ in. ...	2 13 6	2, $1\frac{3}{4}$ , $1\frac{1}{2}$ , $1\frac{1}{4}$ in. ...	6 18 6
$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{3}{8}$ in. ...	1 11 6	$1\frac{1}{4}$ , 1, $\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	3 1 6	2, $1\frac{3}{4}$ , $1\frac{1}{4}$ , $1\frac{1}{8}$ in. ...	7 3 0
$\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{7}{16}$ , $\frac{3}{8}$ in. ...	1 14 0	$1\frac{1}{4}$ , $1\frac{1}{8}$ , 1, $\frac{7}{8}$ , $\frac{3}{4}$ in. ...	3 2 0	2, $1\frac{1}{2}$ , $1\frac{1}{4}$ , $1\frac{1}{8}$ , 1 in. ...	7 9 6
$\frac{7}{8}$ , $\frac{3}{4}$ , $\frac{5}{8}$ in. ...	1 12 0	$1\frac{1}{2}$ , $1\frac{1}{4}$ , 1 in. ...	3 0 0	2, $1\frac{3}{4}$ , $1\frac{1}{2}$ , $1\frac{1}{4}$ , $1\frac{1}{8}$ in. ...	7 14 0
$\frac{7}{8}$ , $\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ in. ...	1 18 6	$1\frac{1}{2}$ , $1\frac{1}{4}$ , 1, $\frac{7}{8}$ in. ...	3 10 6	2, $1\frac{3}{4}$ , $1\frac{1}{4}$ , $1\frac{1}{8}$ , $1\frac{1}{2}$ in. ...	7 16 6
$\frac{7}{8}$ , $\frac{3}{4}$ , $\frac{5}{8}$ , $\frac{1}{2}$ , $\frac{3}{8}$ in. ...	2 5 0				



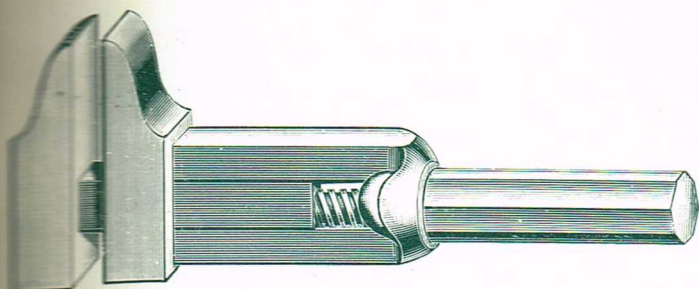
**COACH WRENCHES.**

No. P 7046

**Single Coach Wrench.**

No. P 7046

8	9	10	11	12	13	14	15	16	17	18 in.
3 6	3 10	4 3	4 9	5 6	6 -	6 4	6 9	7 9	8 6	9 3 each.

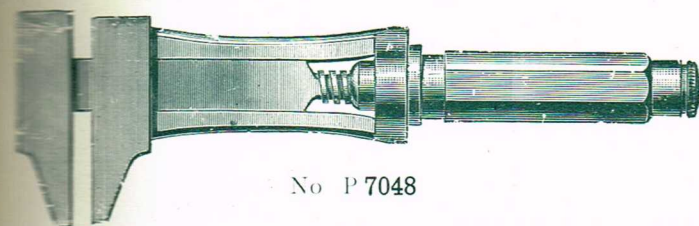


No. P 7047

**Double Coach Wrench.**

No. P 7047

8	9	10	11	12	13	14	15	16	17	18 in.
6 -	6 3	6 9	7 3	7 8	8 6	10 3	12 -	13 6	15 3	17 - each.



No. P 7048

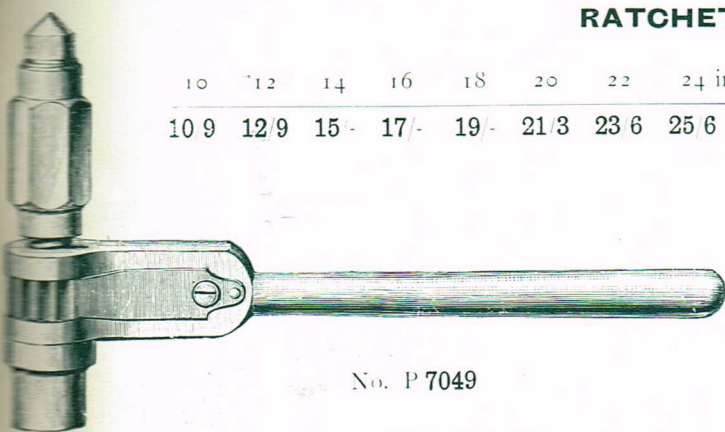
**Best Double Coach Wrench.**

No. P 7048

8	9	10	11	12	13	14	15	16	17	18 in.
7 3	8 3	9 3	9 9	10 9	11 9	12 9	14 -	15 9	17 -	18 9 each.

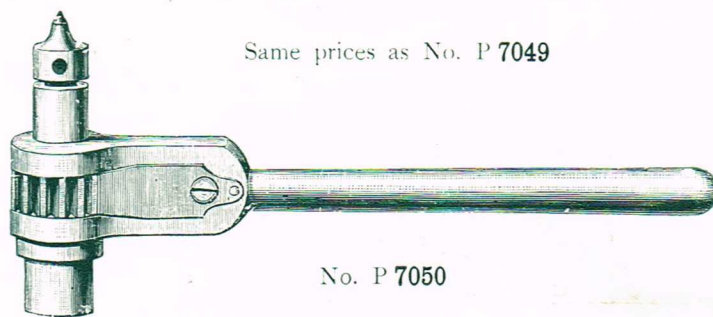
**RATCHET DRILL BRACES.**

10	12	14	16	18	20	22	24 in.
10 9	12 9	15 -	17 -	19 -	21 3	23 6	25 6 each.



No. P 7049

Same prices as No. P 7049



No. P 7050

BEST C.S. DRILLS for above, assorted up to 1½ in. ... 12/- per doz.

**TUBE CUTTER, 1-WHEEL.**

No. P 7051

Best Wrought and Malleable Iron, with steel gripping parts carefully hardened.



Size No. 1, for ¼ to 1 in. tube ...	10 9 each.
" " 2, " 1½ " 2 in. " ...	15 3 "
" " 3, " 2½ " 3½ in. " ...	21 9 "

EXTRA CUTTERS, No. 1 ...	8 6 per doz.
" " " 2 ...	11 6 "
" " " 3 ...	16 3 "

**TUBE CUTTER, 3-WHEEL.**

No. P 7052

Best Wrought and Malleable Iron.



Size No. 1, for ¼ to 1 in. tube ..	12 3 each.
" " 2, " 1½ " 2 in. " ...	20/- "
" " 3, " 2½ " 3½ in. " ...	26 6 "

EXTRA CUTTERS, as above.



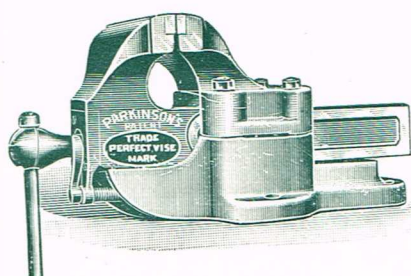
**Instantaneous Vice.**

No. P 7053

For Joiner's use.

	Width of Jaws.	Opens.	Price.
No. P 7053 ..	7 $\frac{1}{2}$ in.	6in.	£1 0 0
" P 7054 ..	9in.	12in.	1 2 0
" P 7055 ..	10 $\frac{1}{2}$ in.	13in.	1 6 0

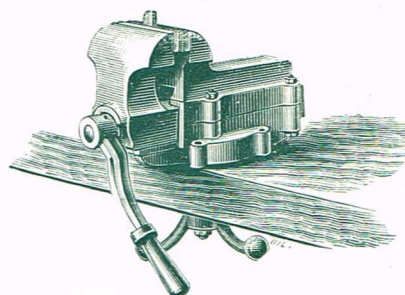
Fitted with Bench Hook, 13 extra.

**Parallel Vice.**

No. P 7056

For Engineer's use.

	Width of Jaws.	Opens.	Price.
No. P 7056	3 $\frac{1}{2}$ in.	3 $\frac{1}{2}$ in.	£1 11 0
" P 7057	4 $\frac{1}{2}$ in.	4 $\frac{1}{2}$ in.	2 4 3
" P 7058	6in.	6 $\frac{1}{2}$ in.	2 17 6
" P 7059	7in.	9 $\frac{1}{2}$ in.	4 8 6

**Fitter's Vice.**

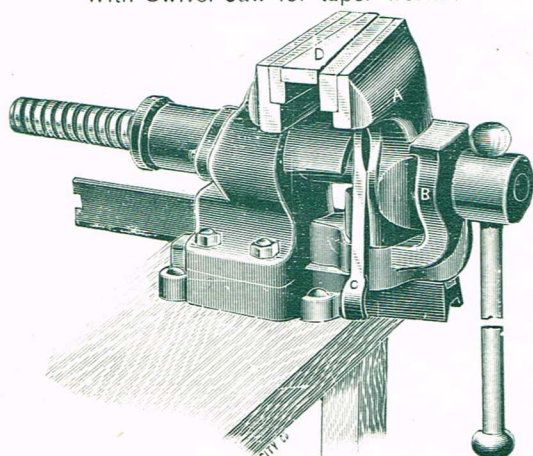
No. P 7060

Instantaneous Grip.

	Width of Jaws.	Opens.	Price.
No. P 7060	3in.	3in.	£1 16 0
" P 7061	4in.	4in.	2 1 6
" P 7062	5in.	5in.	2 8 0
" P 7063	6in.	6 $\frac{1}{2}$ in.	2 16 6

**Vice,**

With Swivel Jaw for taper work.

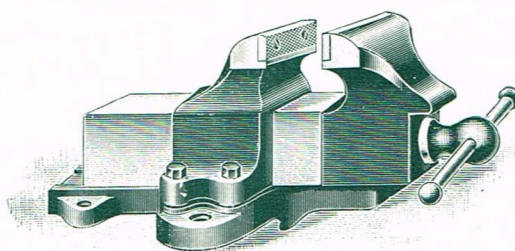


No. P 7064

Very strong, instantly changed from Parallel to Taper, and vice versa.

Width of Jaws, 6in. Opens 8in.

Price, £3 19 0

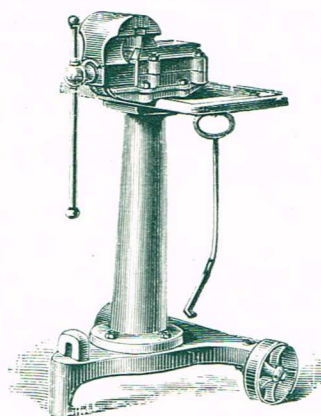
**Improved Parallel Vice.**

No. P 7065

	Width of Jaws.	Opens.	Price.
No. P 7065	3in.	3 $\frac{1}{2}$ in.	£0 9 9
" P 7066	4in.	4 $\frac{1}{2}$ in.	1 1 3
" P 7067	5in.	6 $\frac{1}{2}$ in.	2 0 0

**Portable Vice,**

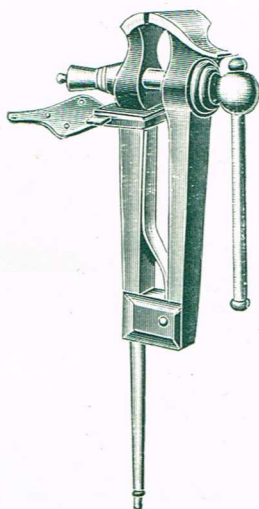
With Cast-iron Stand.



No. 7073

Fitted with Rapid Screw Vice.

	Width of Jaws.	Opens.	Price.
No. P 7073	5in.	5in.	£5 14 6
" P 7074	6in.	6 $\frac{1}{2}$ in.	6 15 6
" P 7075	7in.	8 $\frac{1}{2}$ in.	9 4 6

**Smith's Staple Vice.**

No. P 7071

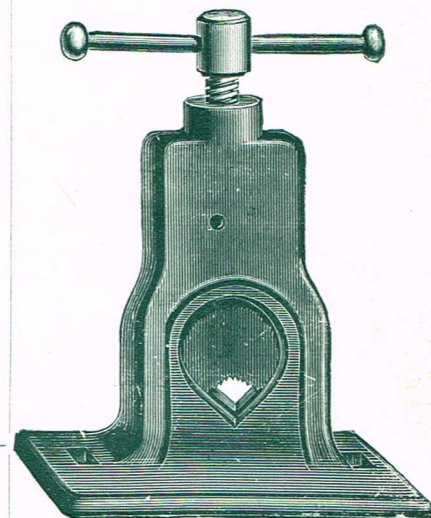
Best warranted quality.  
30lbs. and upwards.

No. P 7071—Black	...	6d. per lb.
" P 7072—Bright	...	7d. "

Stock Sizes, 3 to 7in.

**Tube Vice.**

Closed Pattern.



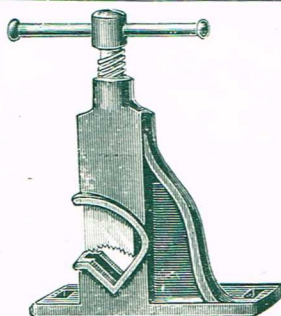
No. P 7076

Open or closed pattern, same price.

	To Grip.	Price.
No. P 7076	$\frac{1}{4}$ to 1 $\frac{1}{2}$ in.	£0 10 9
" P 7077	$\frac{1}{4}$ " 2in.	0 13 9
" P 7078	$\frac{1}{4}$ " 3in.	0 19 6
" P 7079	$\frac{1}{4}$ " 4in.	1 8 0

**Light Tube Vice,**

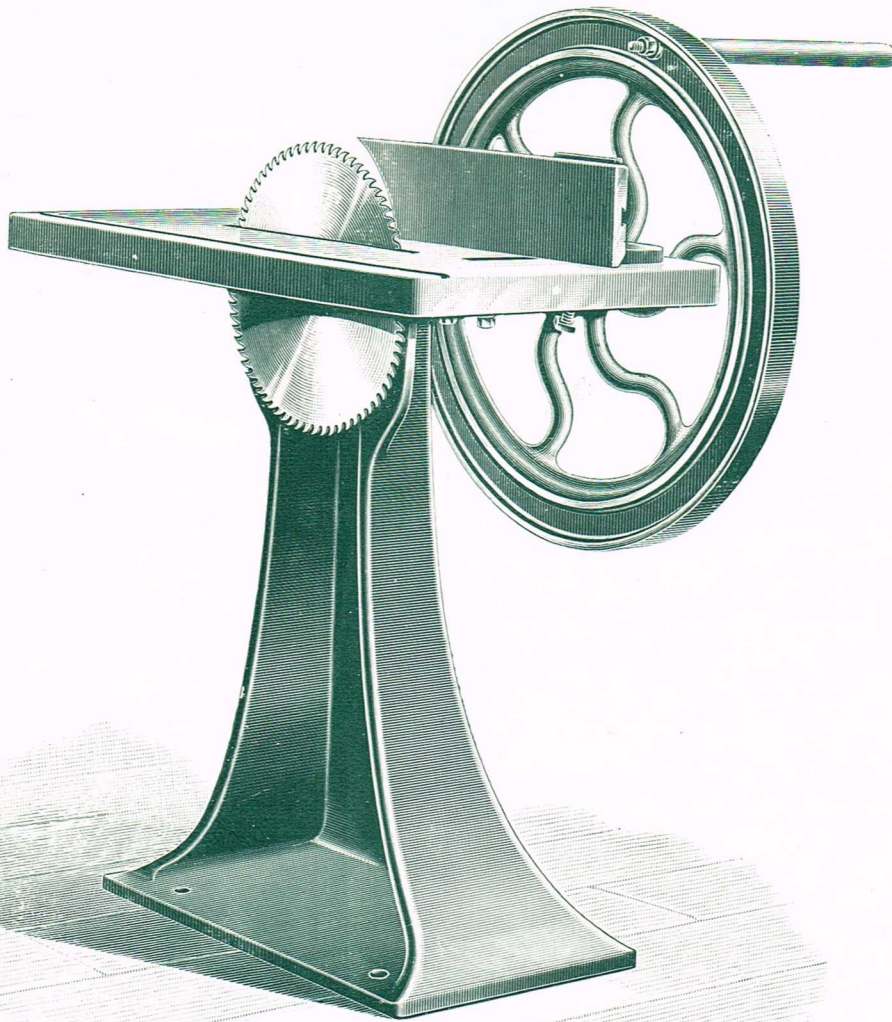
With Flat or Side Flanges.



No. P 7080

	To Grip.	Price.
No. P 7080,	$\frac{1}{4}$ to 1in.,	7 9
" P 7081,	$\frac{1}{4}$ to 2in.,	15/-



**IMPROVED HAND-POWER SAW BENCH.**

No. P 7082

**IMPROVED  
HAND-POWER CIRCULAR  
SAW BENCH.**

No. P 7083

THE table of this Bench measures 4ft. x 2ft., and is planed perfectly true on top. It is fitted with rising and falling spindle, self-acting feed motion; parallel fence, made to cant, so as to cut bevels, and also to turn over end of bench to be out of way of cross-cutting. It is also fitted with weight and roller for keeping timber to fence, and six extra rollers for extending the bench.

The 14in. saw will cut 4½in. deep.

Approximate weight, 6 cwt. 2 qrs.

PRICE, with one each 9in. and 14in. Circular Saws... £16 0 0

No. P 7082

THIS engraving represents a very useful Circular Saw Bench to work by hand-power, for Joiners, Cabinet Makers, etc. It will also be found very useful to Builders and Contractors to take out on jobs, being easily moved about.

It is handy for ripping, also for cross-cutting, as the fence is very easily removed.

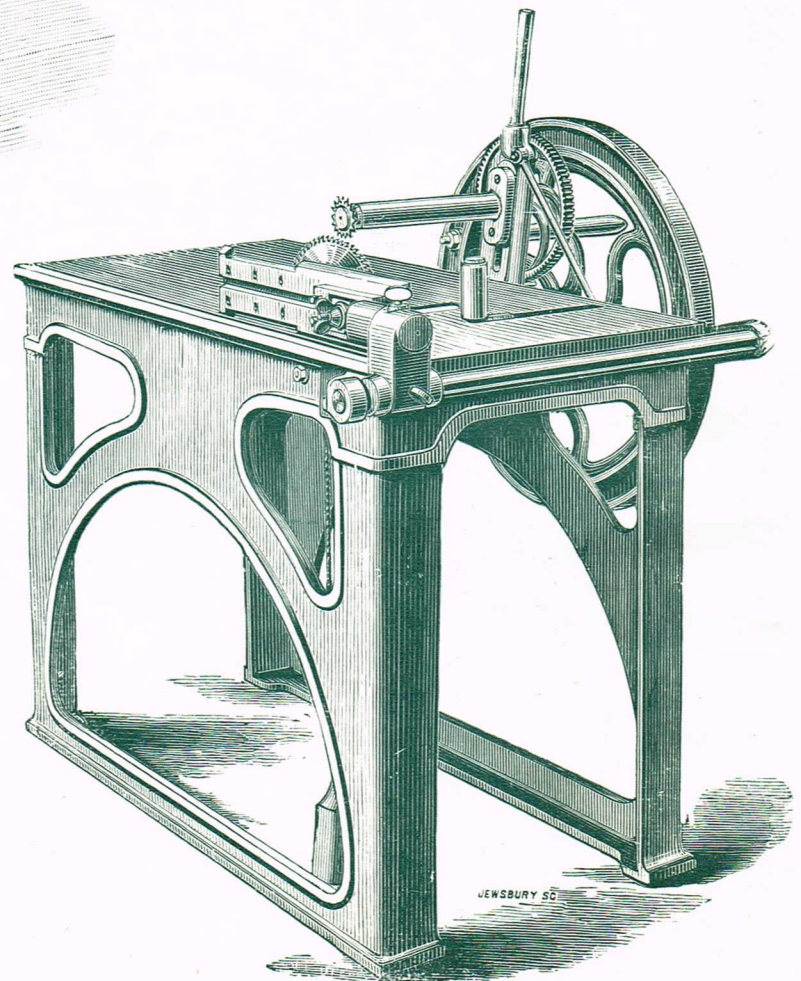
The surface of table is 2ft.9 x 1ft.6, and admits a saw up to 14in. diameter.

The diameter of fly-wheel is 28in.

The spindle is left sufficiently long so that at any time fast and loose pulleys for power can be attached in place of fly-wheel.

Approximate weight, 5 cwt.

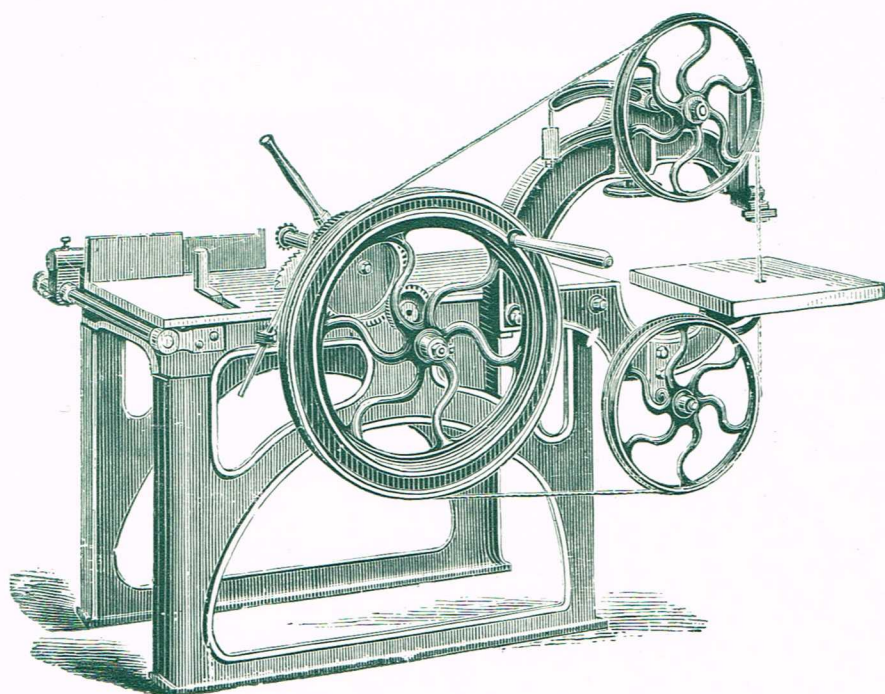
PRICE of Bench, with one 14in. Circular Saw ... ..	£11 10 0
Extra for fast and loose pulleys for power and strap fork, as well as fly-wheel and handle ...	2 11 0



No. P 7083



## HAND-POWER COMBINED CIRCULAR AND BAND SAWING MACHINE.



No. P 7084

**T**ABLE for bench 4ft. × 2ft., planed perfectly true on top. Fitted with rising and falling spindle, self-acting feed motion: parallel fence, made to cant so as to cut bevels and also to turn over end of bench, to be out of way of cross-cutting. Also fitted with weight and roller for keeping timber to fence.

Band saw apparatus is fitted with square table, made to cant for cutting to any bevel. The band saw is fitted with new arrangement for securing equal tension on saw at all times.

Approximate weight, 8 cwt. 2 qrs. Will cut with 14in. circular saw 4½in. deep, and with the band saw 6in. deep.

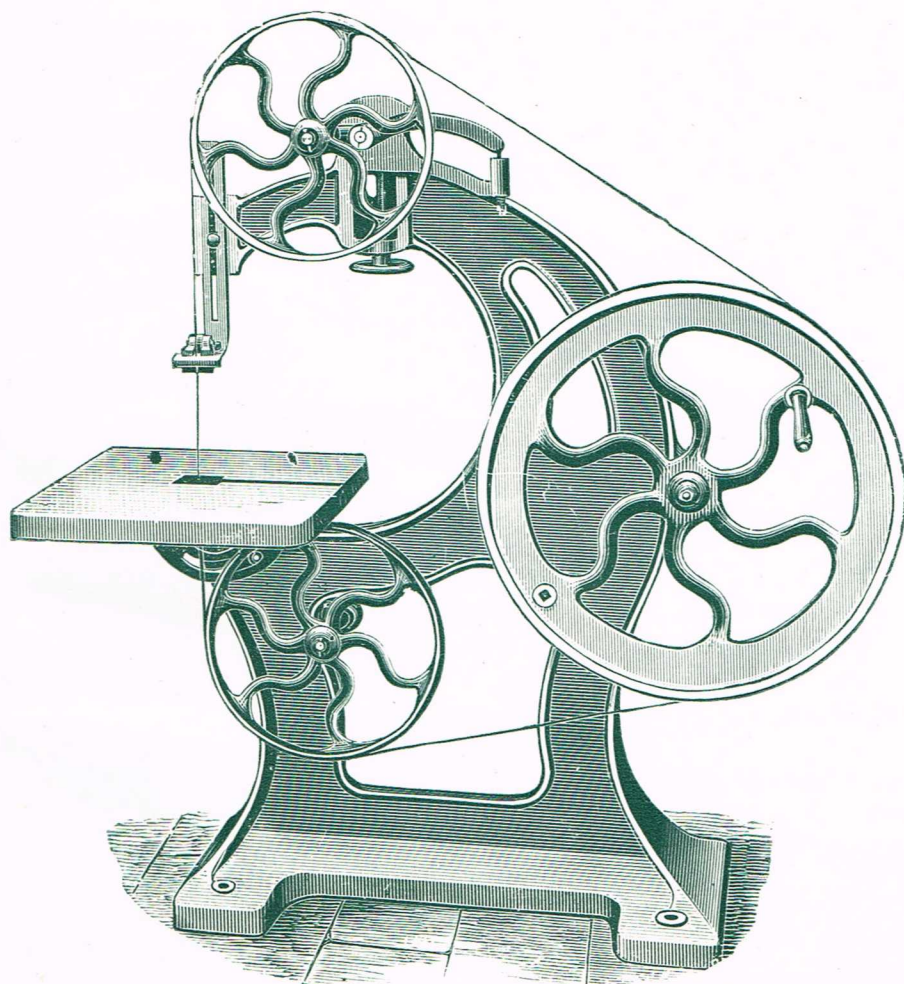
PRICE, fitted with one each 9in. and 14in.

Circular Saw, and one ¾in. Band Saw £28 0 0

PRICE, extra if fitted with Boring Apparatus

and one Auger ... .. 2 12 0

## HAND-POWER IMPROVED BAND SAW MACHINE.



No. P 7035

**T**HIS Band Saw Machine is very strongly built, the pillar being one solid casting: it is very compact and complete in itself, and takes up very little room.

It is fitted with tension motion, to allow for contraction or expansion of saw when cutting.

The table is made to cant, for cutting wood on the bevel.

Made in two sizes, either of which may be worked by steam-power by placing a pair of driving pulleys behind the fly-wheel.

No. P 7085 Approximate weight, 7 cwt. 0 qrs.

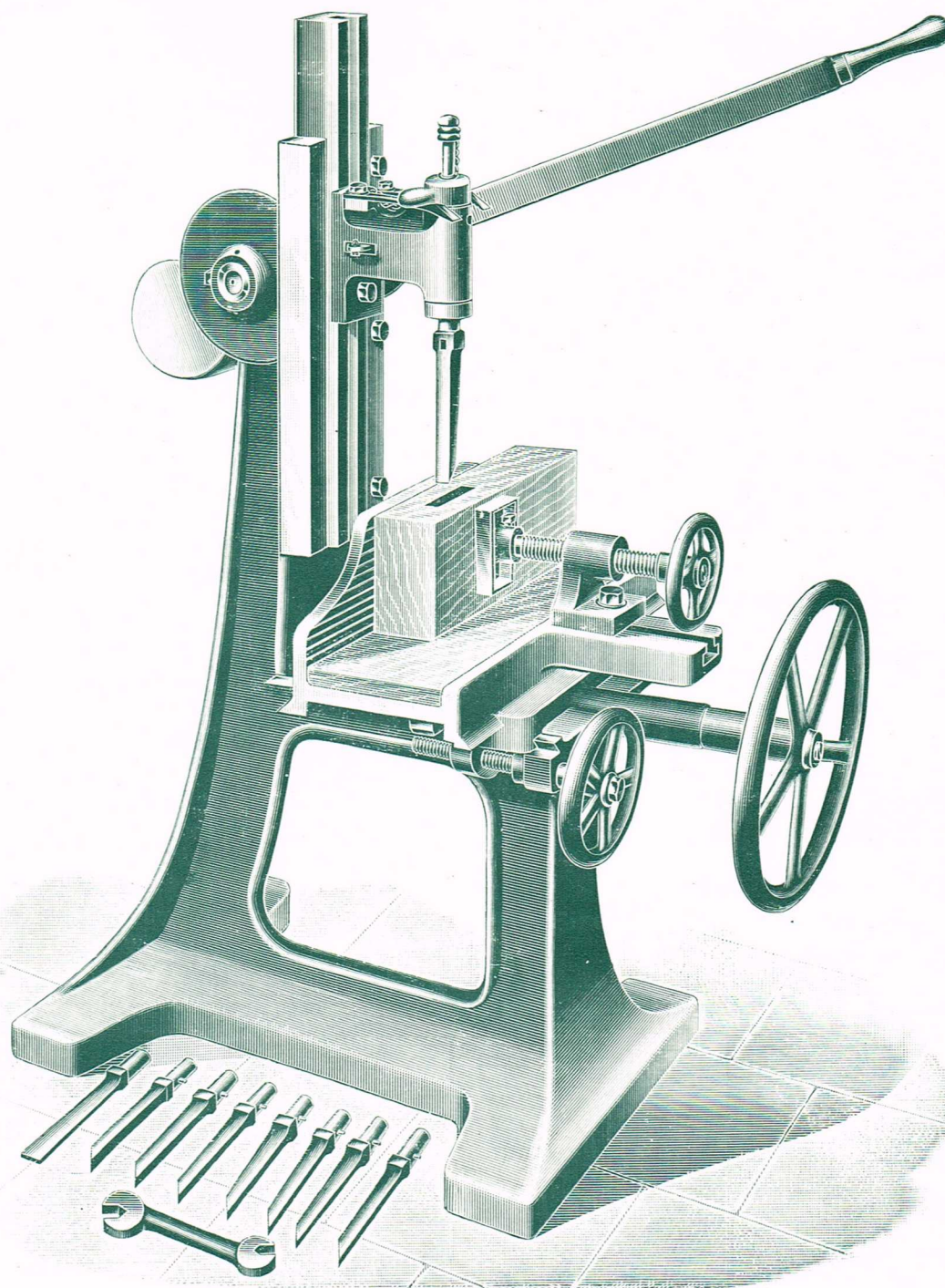
" P 7086 " " 5 " 2 "

No. P 7085, with Band Saw Pulleys, each 20in. diameter, and fly-wheel 32in. diameter, with Angle Bracket for tenoning: one Screw-key, and one ¾in. Band Saw, sharpened and set ready for use ... .. £17 5 0

No. P 7086, with Band Saw Pulleys, each 16in. diameter, and fly-wheel 28in. diameter, with Angle Bracket for tenoning: one Screw-key, and one ¾in. Band Saw, sharpened and set ready for use ... .. 13 7 6



## MORTISING AND BORING MACHINE.



No. P 7087

IN designing and constructing the above the great aim has been to make a **MORTISE MACHINE** to come in at an exceedingly low price, and which for simplicity, efficiency, and accuracy in all its working parts, cannot be surpassed.

It is suitable for working either hard or soft wood, thus making it a most acceptable machine for all classes of Joiners, Builders, Cabinet Makers, etc., etc.

**The Frame** itself is made all in one casting. By this means a strength and solidity is obtained, which is not only very desirable but very necessary where good work is required to be done.

**The Wrought-iron Lever** which is used for bringing the chisel down to its work is so placed that when the workman is using the Machine he stands in an easy and convenient position for operating on and seeing the work he is doing.

**The Chisels** are made at the works from a high-class steel, especially manufactured for Mortising purposes—a class of steel which a great many years' experience has taught us is the best for mortise chisels.

Each chisel is fitted with a pin, which fits in a slot hole in a taper socket in chisel box; this keeps it immovable and perfectly true in reversing; thus, by a half-turn of chisel box handle, the chisel is reversed truly.

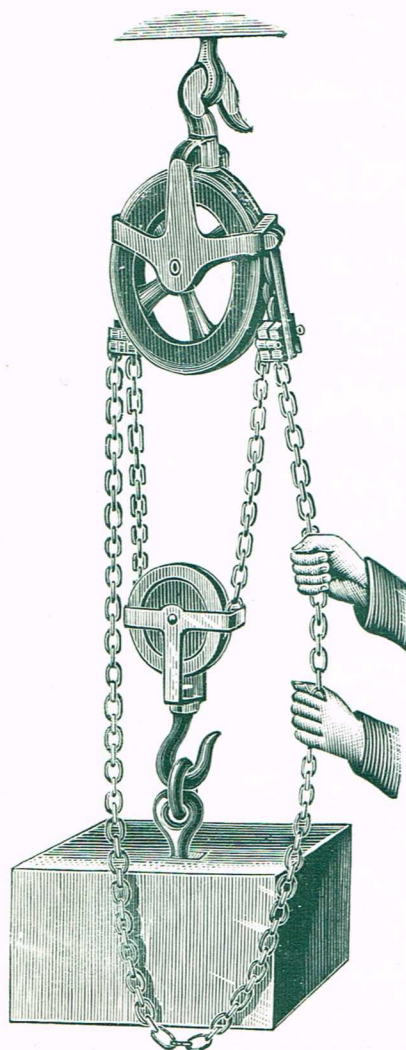
This Machine will mortise 6in. deep, and take work on the movable table 15in. x 8in. Weight of Machine, 3 cwt. 3 qrs.; with Boring Apparatus, 4 cwt.

PRICE with eight Chisels, $\frac{1}{4}$ in. to $\frac{3}{4}$ in., one Spanner and one Core Driver, without Boring Apparatus ...	£10	10	0
Boring Apparatus extra, including three Bits for iron and three Bits for wood ...	1	5	6
If fitted with eight Self-coring Chisels, in place of eight ordinary Chisels usually supplied, extra ...	1	12	0



### Weston's Improved Differential Pulley Block,

WITH GUIDES.



No. P 7088

Tested to	Blocks per set.	Tested Chain per ft.
5 cwts. ...	6 6	4½ d.
10 " ...	10 3	4½ d.
15 " ...	12 -	5 d.
20 " ...	14 -	5½ d.
30 " ...	20 -	6½ d.
40 " ...	26 -	7½ d.
60 " ...	36 6	8 d.
80 " ...	49 -	9 d.

Four feet of chain required for every foot to be lifted.

### Pickering's Patent Hoist.

VERY USEFUL AND QUICK FOR LIGHT WEIGHTS.



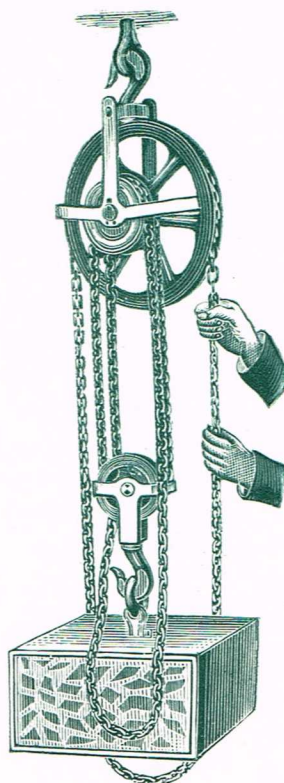
No. P 7089

Lifting Power.	Price of Hoists.	Brake extra.	Chain per ft.
3 cwts. ...	12 3	8 -	5½ d.
5 " ...	16 3	8 -	5½ d.
10 " ...	24 -	8 -	6½ d.
20 " ...	40 6	8 -	6½ d.

Quantity of chain required is three times the height of lift.

### Weston's Improved Differential Pulley Blocks,

WITH SPROCKET WHEEL.

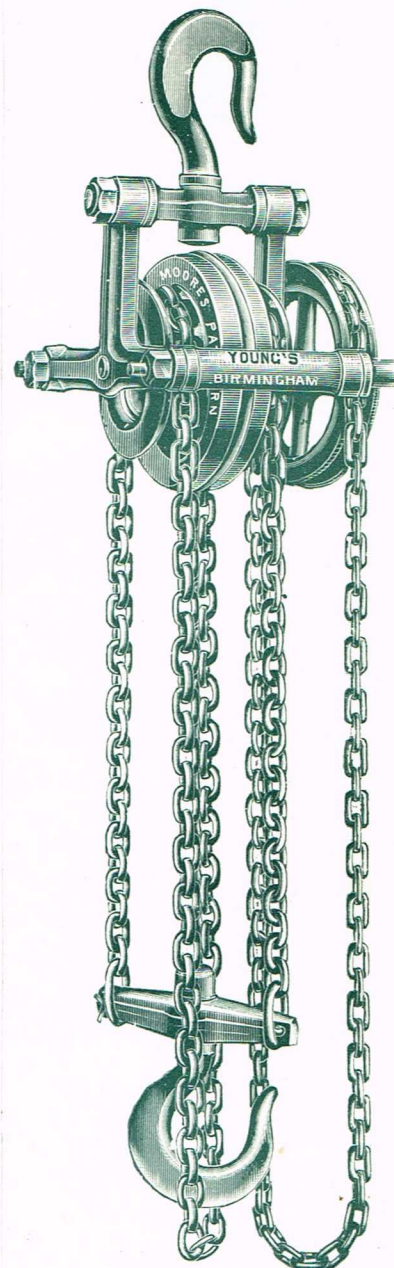


No. P 7090

Tested to	Blocks per set.	Tested Chain per ft.	Hand-chain per ft.
30 cwts. ...	28 6	6½ d.	5 d.
40 " ...	36 6	7½ d.	5½ d.
60 " ...	48 6	8 d.	6½ d.
80 " ...	61 -	9 d.	6½ d.

Length of lifting chain required with these Blocks is twice height of lift, plus 6ft. Hand-chain, twice height of lift.

### Moore's Patent Differential Block.



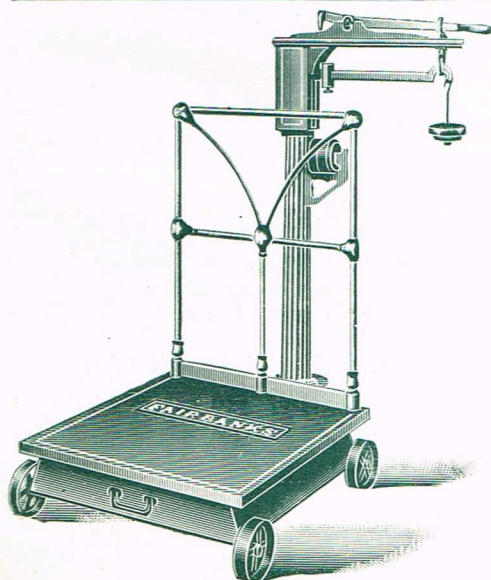
No. P 7091

To lift	Price of Blocks.	Chain per ft., including Hook.
10 cwts. ...	24 9	10½ d.
20 " ...	35 9	1 1/4
30 " ...	44 9	1 1/7
40 " ...	51 -	1 1/7
60 " ...	76 -	2 -
80 " ...	98 -	2 2
100 " ...	125 -	2 2

The hand-chain is included in price of Block. In ordering these Blocks please specify the height of lift, or state what chain is required.

For the 10, 20, 30 and 40 cwts. size add 3ft. to double the height of lift.

For the 3, 4 and 5 ton size add 6ft. to double the height of lift.



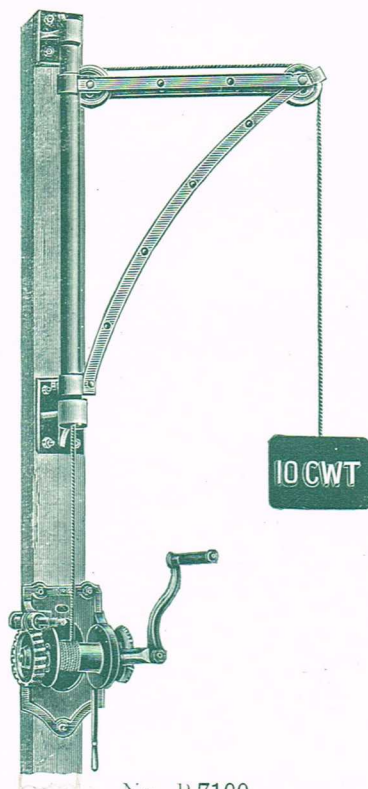
### IRON WEIGHING MACHINES.

No. P 7092

No.	Size of Platform.	Price without Backrail.	Price with Backrail.
P 7092 3 cwts.	20 x 22 in.	£4 2 6	£4 12 0
" P 7093 4 "	22 x 25 in.	4 9 6	4 18 6
" P 7094 5 "	25 x 25 in.	5 5 6	5 17 0
" P 7095 7 "	30 x 30 in.	6 18 6	7 11 6
" P 7096 10 "	32 x 32 in.	7 19 0	8 13 0
" P 7097 12 "	34 x 34 in.	8 8 3	9 12 0
" P 7098 15 "	36 x 36 in.	9 16 6	10 15 0
" P 7099 20 "	38 x 38 in.	11 9 0	12 12 6



### JIB CRANE AND HOIST.



No. P 7100

This engraving shows an arrangement of Jib Crane and Hoist, which is very handy for unloading drays, etc. Anything up to 10 cwt. can be worked by one man.

The cost of a Three-feed Jib Crane and Hoist, with wire rope, hook and ball, as shewn, but without the back post, is

£12 10 0

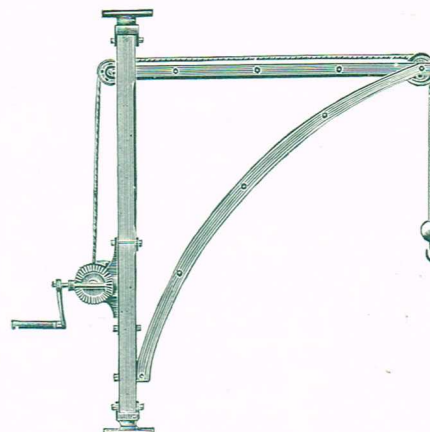
Extra for increased radius, 24/- per foot or part of a foot.

Suitable Bolts for 18in. wall, 24/- per set.

Suitable Wire Rope, with hook and ball, 10d. per ft.

### PLATFORM CRANES,

with Wooden Back and Iron Hoist.

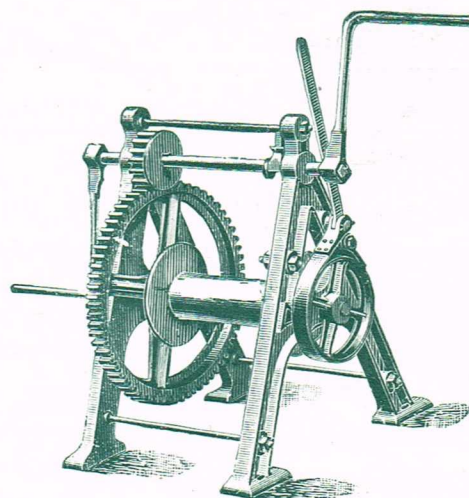


No. P 7101

These Cranes can be easily modified to suit any building, and as they revolve through a complete circle, they serve a large area. They can be taken apart for shipment, and easily re-erected. The upright beam can be made of iron, if preferred, at a slight extra cost.

To lift	Height over all.	Radius.	Price complete.	Wire rope, hook and ball.	Extra height.	Extra radius.
3 cwt.	9ft.	6ft.	£ 14 5 6	per ft. 7d.	per ft. 12/-	per ft. 24/-
5 "	9ft.	6ft.	17 17 0	7d.	12/-	24/-
10 "	9ft.	6ft.	22 12 0	10½d.	18/-	36/-

### IMPROVED HOISTING CRABS.



No. P 7103

#### SINGLE PURCHASE CRAB.

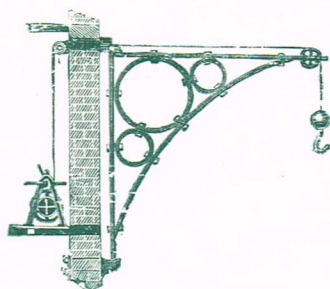
Size Nos. ...	1	2	3	4
To lift with Two- and Three- sheave Pulley Blocks ...	2 tons.	3 tons.	4 tons.	5 tons.
Without Brake ...	£3 2 0	£3 6 9	£3 17 0	£4 6 0
With " ...	3 11 0	3 15 9	4 7 0	4 16 6

No. P 7104

#### DOUBLE PURCHASE CRAB.

Size Nos. ...	5	6	7	8
To lift with Two- and Three- sheave Pulley Blocks ...	5 tons.	6 tons.	8 tons.	9 tons.
Without Brake ...	£4 15 6	£5 19 6	£6 15 6	£6 18 0
With " ...	5 9 0	6 14 6	7 11 6	7 16 0

### WROUGHT-IRON WAREHOUSE CRANE.



No. P 7102

These Cranes consist of strong wrought-iron jib, cast-iron wall brackets, with bolts, nuts, and washers, chain pulley and rollers.

Height and radius can be varied as necessary. State thickness of wall when ordering.

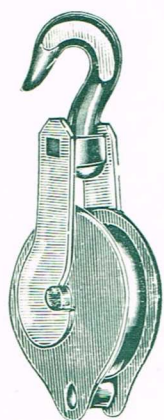
Price of chain includes hook and ball.

To lift tons.	Radius.	Height.	Price.	Suitable Crab, with Brake.	Chain per ft.
½	3ft.0	4ft.6	£ 7 3 0	£ 4 9 6	1/-
1	3ft.6	5ft.0	9 10 6	6 9 0	1 3
1½	3ft.6	5ft.0	12 5 0	8 19 6	1 6
2	4ft.6	6ft.0	14 12 6	10 11 0	1 9
3	5ft.0	6ft.6	21 1 6	19 1 0	2 4

Estimates given for all sizes and types of Warehouse Cranes on receipt of specification.



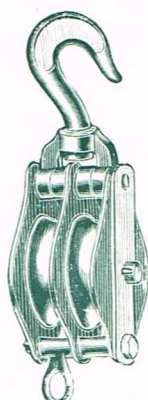
## LONDON PATTERN PULLEY BLOCKS.



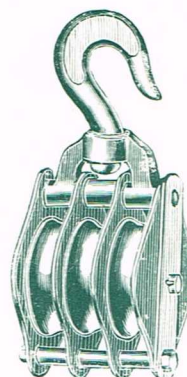
No. P 7105



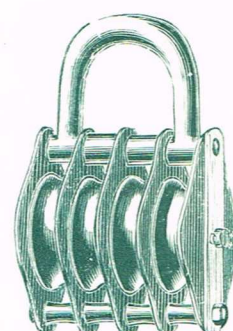
No. P 7106



No. P 7107



No. P 7108

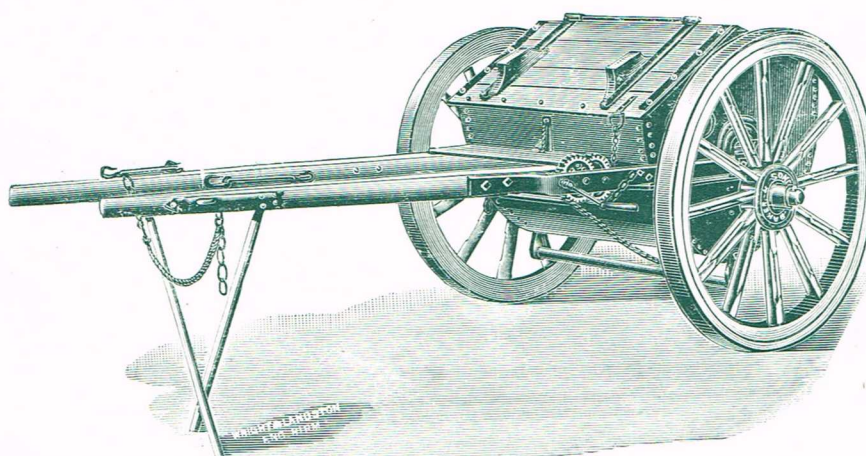


No. 7109

Diameter of Sheaves	...	Ins.	2½	3½	4	4¾	5	6	7	8	9	10	11	12
			×	×	×	×	×	×	×	×	×	×	×	×
Width of Groove	...	"	¾	1½	2	2½	3	4	5	6	7	8	9	10
No. P 7105 Snatch	...		5 4	5 4	6 -	6 9	8 6	9 4	12 3	16 3	22 -	39 -	62 6	73 -
" P 7106 One-sheave	...		3 -	3 5	4 -	4 9	6 -	7 4	9 9	13 2	18 9	33 3	49 -	58 9
" P 7107 Two-sheave	...		4 -	4 9	6 -	7 4	9 6	11 2	15 9	22 -	31 6	54 9	90 -	112 6
" P 7108 Three-sheave	...		4 9	5 8	7 4	9 4	12 3	15 3	21 9	31 6	45 -	78 3	121 -	153 6
" P 7109 Four-sheave	...		5 8	7 3	8 9	13 3	15 9	20 -	30 4	45 -	63 9	121 3	178 -	230 -
Extra Iron Sheaves	...		4d.	4½d.	6d.	9d.	1/-	1 5½	2 -	3 3	3 5	4 5	6 -	7 9
Brass Sheaves, each extra	...		1/-	1 6	2 3	3 9	4 10	6 -	8 6	14 9	18 6	22 6	27 3	39 -
Sheaves will take chain diameter	...	Ins.	—	—	—	¾	1	1½	2	2½	3	3½	4	4½

For Galvanized Iron Blocks, add 30% to above prices.

## IMPROVED SANITARY TUMBLER CART.



No. P 7110

THIS cart is constructed of wrought-iron, and is set low on the ground, fitted with improved cranked axle, so as to be easily filled. The frame to which the shafts are fastened is of angle steel. The shaft passing through the cart body is carried by bearings fixed to the frame. When loaded this cart is almost a perfect balance, there only being a few pounds weight on the horse. The load is tipped by an improved arrangement of windlass and chain. This cart will be found most useful to builders and contractors for hauling mortar, mud, etc.

PRICE to hold 130 gallons.

£33 6 6

160 gallons.

£36 14 6

200 gallons.

£39 9 0

250 gallons.

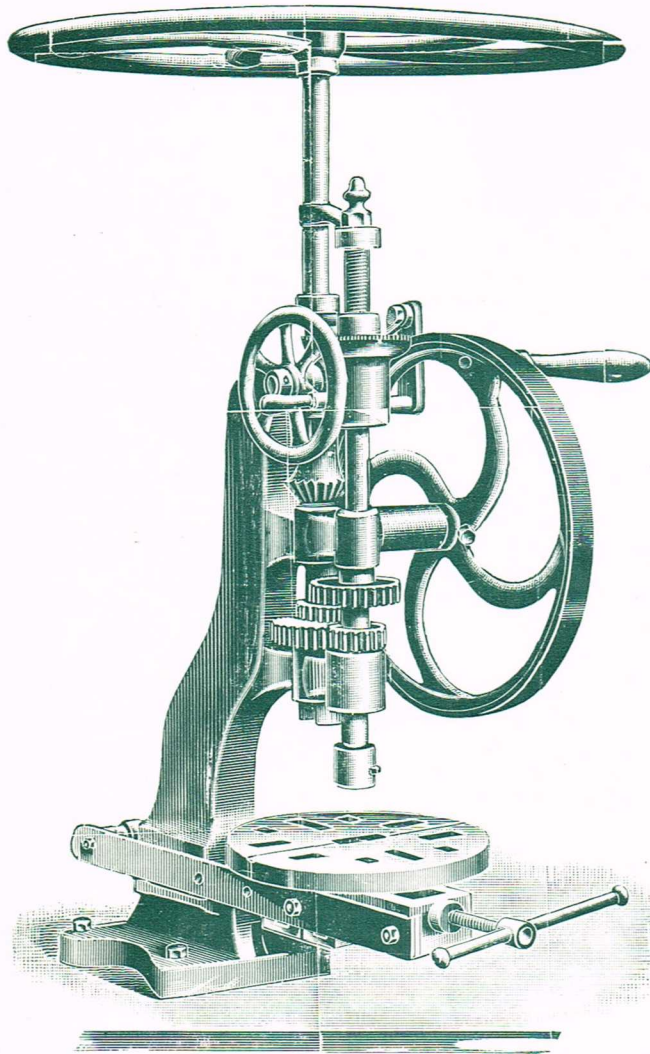
£42 17 0

280 gallons.

£44 17 6



**DRILLING MACHINE.**



No. P 7111

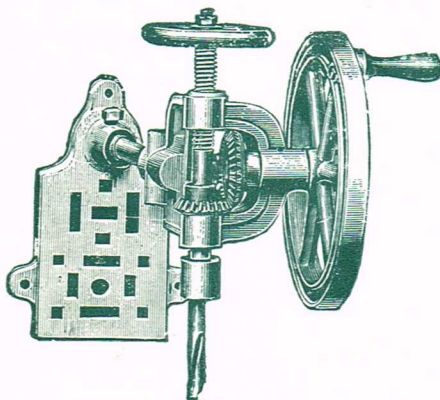
This Machine is Self-feeding, and has Steel Wheels.

Price, £8 6 6

Weight.	Drills centre of	Drills Holes up to	Diameter of Spindle.	Depth of Feed.	Fly Wheel.	Driving Wheel.	Pulley, extra.	Strap Fork, extra.	Stand, extra.
3-cwt.	19in.	1½in.	1¼in.	6in.	30in.	20in.	12/-	6/-	30/-

**DRILLING MACHINE**

For Fixing to bench or wall.



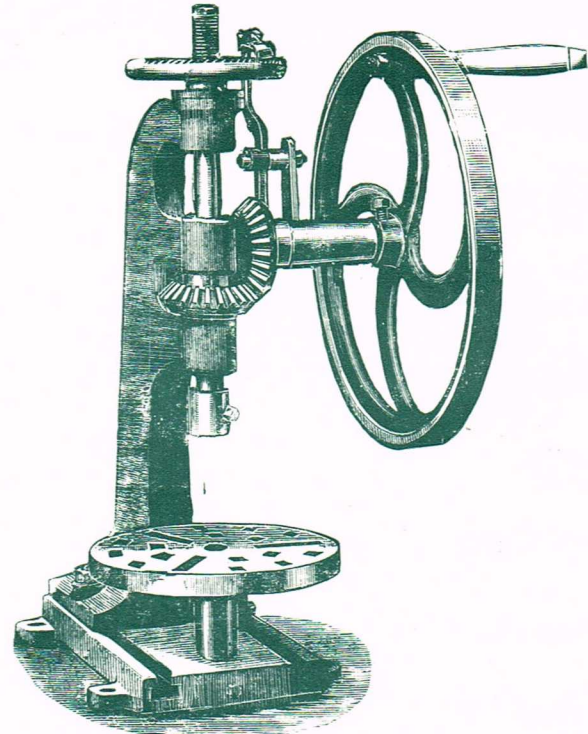
No. P 7113

Weight 42-lbs.

Price, with Six Ordinary Drills ... £1 16 0

Vice, 18/- extra.

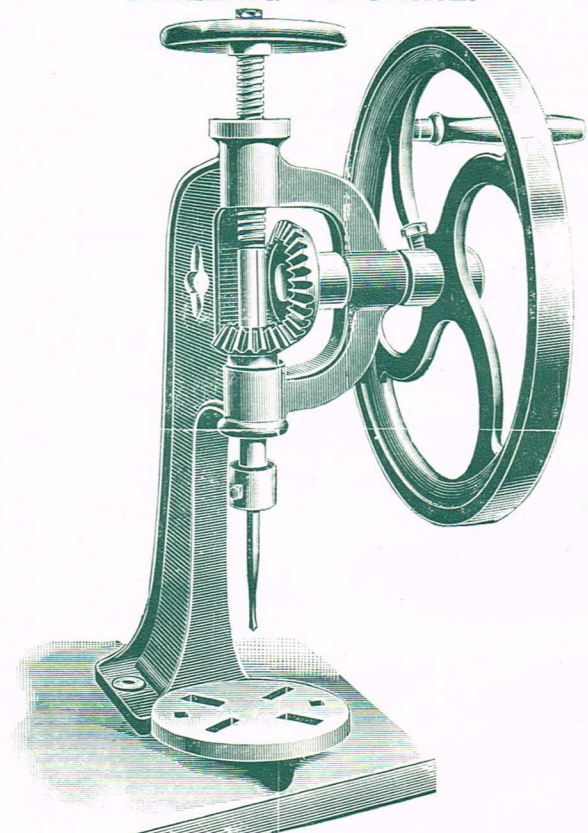
**DRILLING MACHINE.**



No. P 7112

Size.	Drills Holes up to	Depth of Feed.	Total Height.	Weight.	Diam. of Fly Wheel.	Hand Power.	With Fast and Loose Pulleys.	Vice.	On Stand.
No. 1—single driving	1in.	4in.	34in.	160lbs.	20in.	5 7	5 19	Extra.	Extra.
No. 2—double driving	1½in.	6in.	36in.	2cwt.	24in.	6 11	7 3	24/-	24/-

**DRILLING MACHINE.**



No. P 7114

Size.	Drills Holes up to	Depth of Feed.	Total Height.	Diam. of Fly Wheel.	Drill to Centre.	Depth.	Weight.	Hand Power.	With Fast and Loose Pulleys	With extra Fly Wheel at top of Spindle, 5/- extra
No. 0	5in.	2½in.	22in.	13½in.	9in.	5in.	40lbs.	41 9	7 3	Extra.
" 00	5in.	4in.	30in.	15½in.	12in.	7in.	94lbs.	53 6	12/-	12/-



# PATENT PORTABLE RADIAL DRILLING MACHINE.

Can be worked in any position or any angle.

No. P 7115

## STANDARD SIZES

### Prices:

Size 1	...	£3 10 0
" 1A	...	4 3 0
" 2	...	4 15 6
" 3	...	5 14 9
" 4	...	7 0 6
" 5	...	8 5 9
" 6	...	9 11 6

### Approximate Weight.

Size 1	...	15 lbs.
" 2	...	30 "
" 3	...	35 "

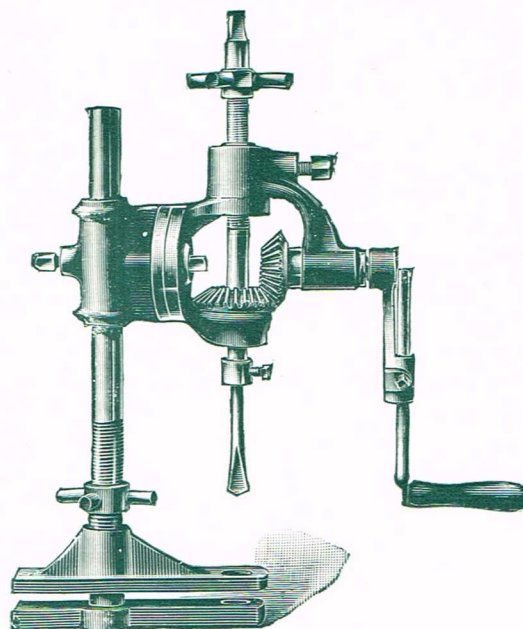


FIG. 1.

## STANDARD SIZES.

### To drill up to

Size 1	...	1/2 in. hole.
" 1A	...	5/8 in. "
" 2	...	3/4 in. "
" 3	...	1 in. "
" 4	...	1 1/4 in. "
" 5	...	1 1/2 in. "
" 6	...	1 3/4 in. "

### Approximate Weight.

Size 4	...	40 bs.
" 5	...	50 "
" 6	...	70 "

## Six Flat Drills supplied with each Machine.

EXTRAS.			Sizes	1	1A	2	3	4	5	
Extension Radial Arm and Socket (Fig. 2)...	...	...	...	12/9	14/-	15/3	15/3	17/10	21/9	21/9
Fast and Loose Pulleys and Stud for Power	...	...	...	—	—	14/-	15/3	16/6	17/9	19/-
Separate Pillar for Pipes (Fig. 5)	...	...	...	—	—	35/9	38/3	44/9	51/-	51/-
Fly-wheel Handle	...	...	...	—	—	9/-	9/9	11/-	12/9	Included.

## TWIST DRILLS.

Diameter	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1	1 1/8	1 1/4	1 1/2 inch.
	4/2	4/3	4/6	4/10	5/7	6/1	6/8	7/3	7/8	8/6	9/8	11/9	12/9	17/3 each

These Drills are 6in. long, with 1/2 in. diameter Parallel Shanks.

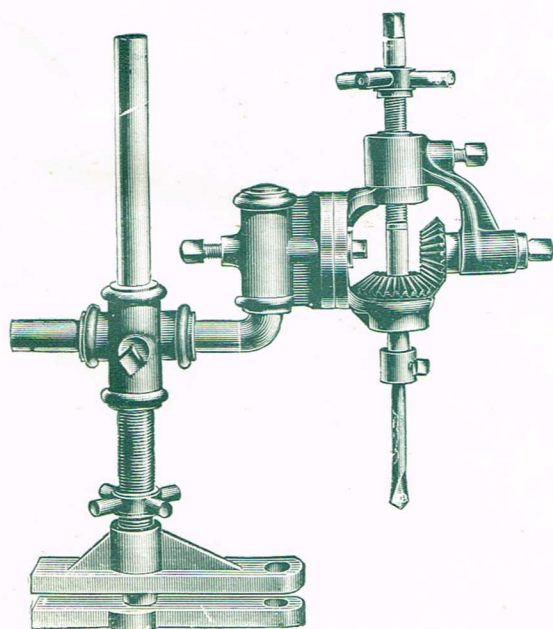


FIG. 2.

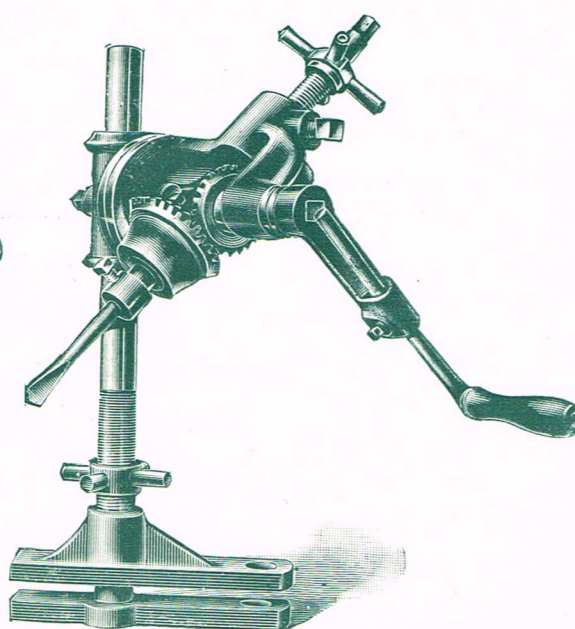


FIG. 4.

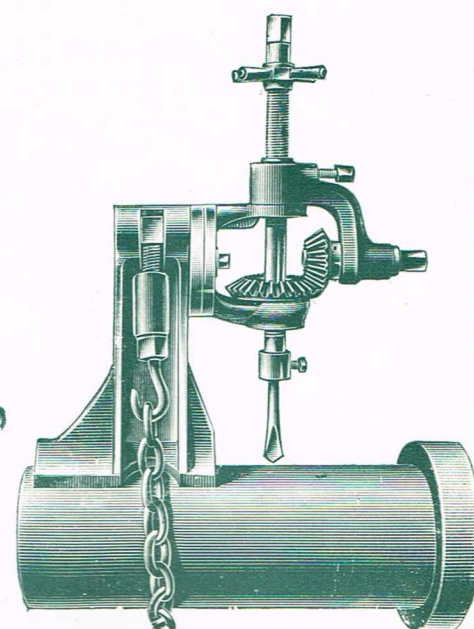


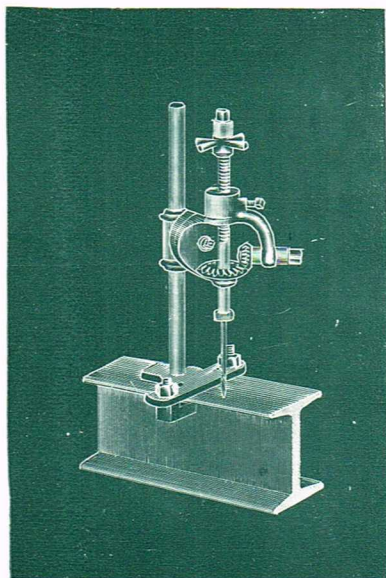
FIG. 5.



# PATENT PORTABLE RADIAL DRILLING MACHINE

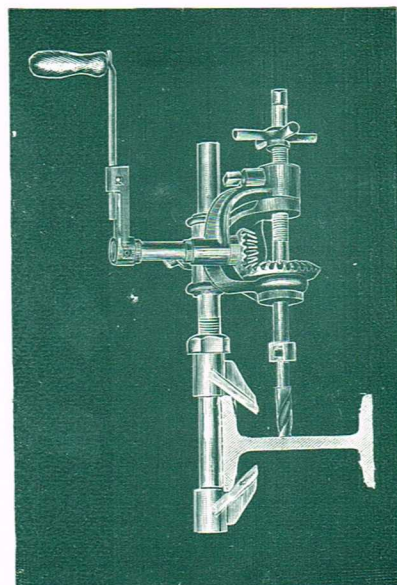
These Machines are suitable for Girders or Rails, and can be fixed very quickly.

The illustrations below show separate pillar attachments for Girder Flanges or Web



FLANGE PILLAR. FIG. 6.

No. P 7116



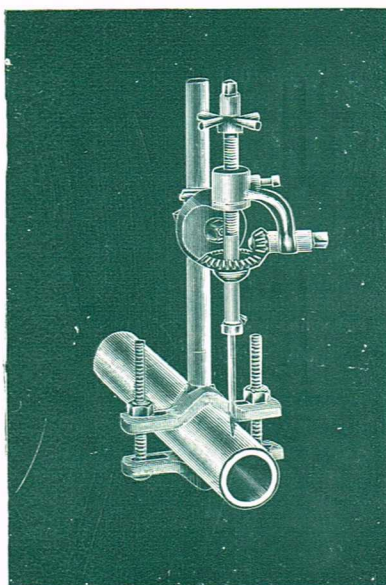
WEB PILLAR. FIG. 7.

The above pillars will grip up to 7in. wide. Greater widths quoted for.

Size 3 Machine, Fig. 6 or 7	...	...	...	...	...	...	£6 11 9	To drill
" 4 " " "	...	...	...	...	...	...	7 0 6	"
" 5 " " "	...	...	...	...	...	...	8 5 9	"

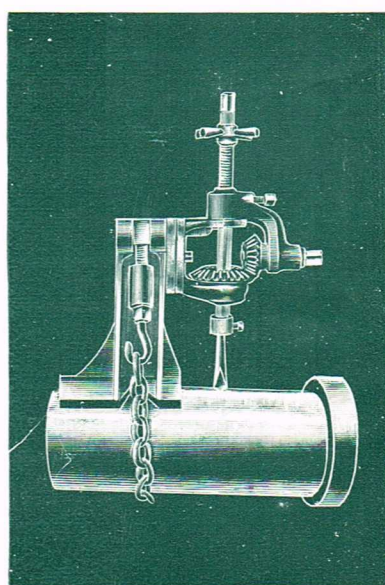
Either pillar extra, if required, No. 3, 24/3; No. 4, 26/9; No. 5, 32/-

The illustrations below show separate pillar attachments for Pipes, Columns, Tramway Pol



CLIP PILLAR. FIG. 8.

No. P 7116



CHAIN PILLAR. FIG. 9.

Size 3 Machine, with clip pillar	...	...	...	...	...	...	£6 11 9	To drill
" 4 " " "	...	...	...	...	...	...	7 0 6	"
" 5 " " "	...	...	...	...	...	...	8 5 9	"

NOTE.—The price of the Machines include any one of the Pillars, Figs. 6, 7 and 8, which may be most suitable for the work required. If of the other Pillars should be required, the prices are extra:—

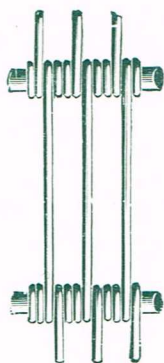
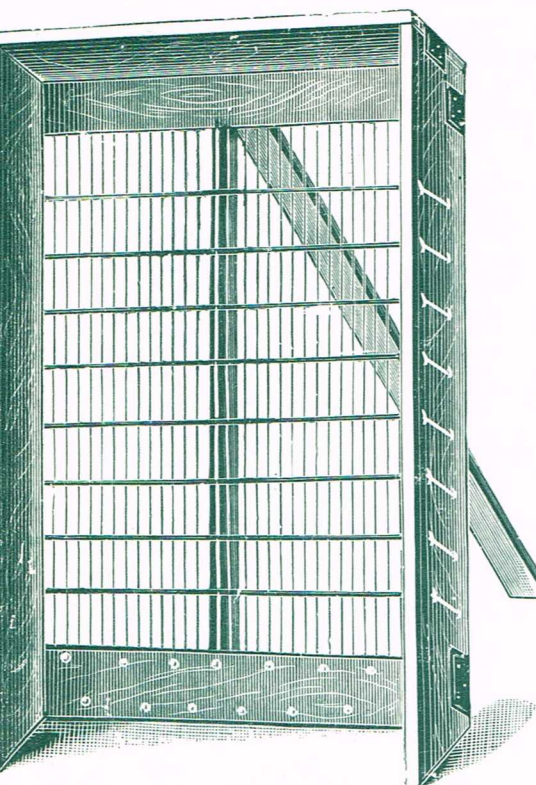
Size	FIG. 6. Flange Pillar	FIG. 7. Web Pillar	FIG. 8. Clip Pillar	FIG. 9. Chain Pillar
3	24/3	24/3	24/3	24/3
4	26/9	26/9	26/9	26/9
5	32/-	32/-	32/-	32/-

Six Flat Drills and one Spanner supplied with each Machine.

No cha



**Extra Strong Coiled Wire,  
Best Quality, Gravel or Lime Screens.**



Section of the  
Coiled Wire.

No. P 7117

Sizes.	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{1}{4}$ inch.
6 x 2ft.6 wide	30/-	30/-	31/6	31/6 each.
6 x 2ft.9 "	32/6	32/6	33/6	33/6 "
6 x 3ft.0 "	36/9	36/9	37/9	37/9 "
<b>Ditto Galvanized :—</b>				
6 x 2ft.6 wide	33/6	33/6	34/6	34/6 each.
6 x 2ft.9 "	38/-	38/-	39/-	39/- "
6 x 3ft.0 "	42/6	42/6	43/6	43/6 "



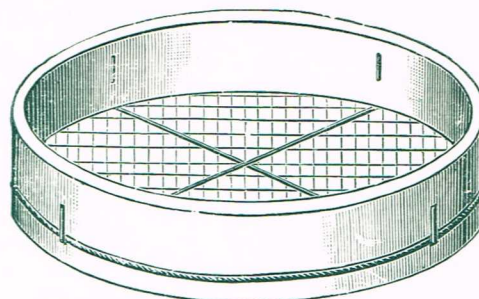
No. P 7120

**Fire Basket,**  
with cast-iron bottom.

Weight about 26 lbs.

PRICE, 24/- each.

**Riddle.**



No. P 7118

**Extra Strong Gravel Riddle, Wood Rims.**

Diameter.	1 to $\frac{1}{2}$	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{1}{8}$ inch.
18 x 4in. ...	...	1/9	1/11	2/1	2/6	3/3 4/1 each.
20 x 4in. ...	...	2/1	2/2	2/6	3/2	3/6 4/8 "
22 x 4in. ...	...	2/9	3/1	3/4	3/10	4/10 6/1 "

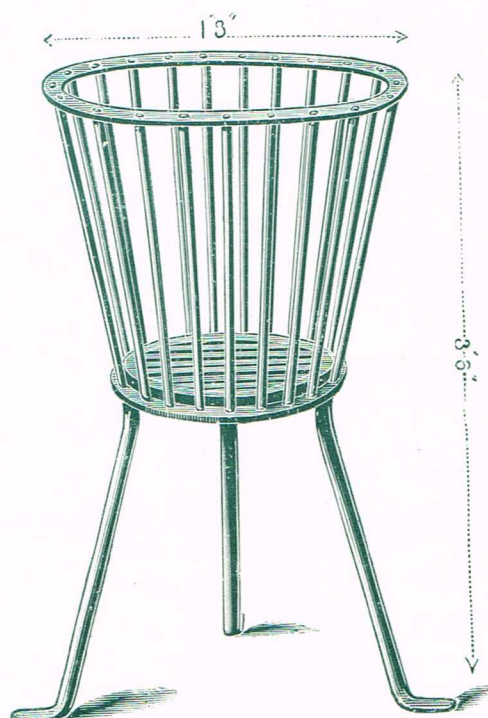
No. P 7119

**Plasterers' Sieves.**

WOVE-IRON WIRE. ASH RIMS.

	Diameter	...	16	18	20 in ch.
4 to 10 meshes to the inch	...	...	1/9	2/-	2/5 each.
12 "	"	...	1/9	2/-	2/5 "
14 "	"	...	1/10	2/2	2/6 "
16 "	"	...	1/11	2/3	2/7 "
18 "	"	...	2/-	2/4	2/8 "
20 "	"	...	2/-	2/5	2/10 "
24 "	"	...	2/2	2/8	2/11 "

**Fire Devil.**



P 7121

Fitted with cast-iron bottom.

Weight about 45 lbs.

PRICE, 39/- each.

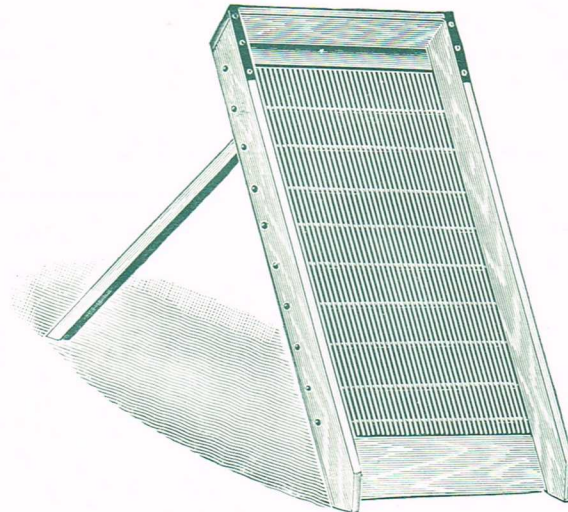


# "EXCELSIOR" SCREEN.

(PATENT.)

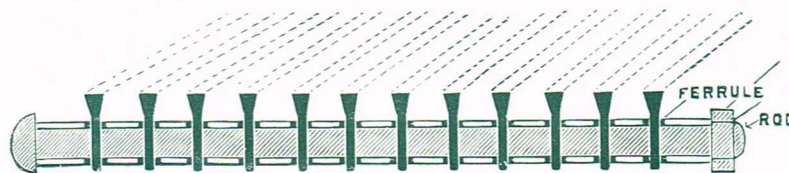
Invaluable to Contractors, Builders, Plasterers, Coal, Coke, and Breeze Merchants.

"EXCELSIOR."



"EXCELSIOR."

No. P 7122



SECTION OF STEEL RODS, ETC.

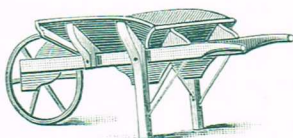
## ADVANTAGES.

1. Self-cleaning, and does not corrode in working.
2. Tested and proved to screen as much in six hours as the wire screen will do in ten hours.
3. Will last a lifetime.
4. Being Steel Rods will offer a greater resistance, and consequently cuts the sand, etc.
5. No broken or bent wires. If a rod gets broken it can be replaced easily.
6. Will save its cost in two months.

## PRICES.

				£	s.	d.					£	s.	d.
6ft.0 × 2ft.5,	$\frac{1}{4}$ in. Mesh	...	...	2	12	3	6ft.0 × 2ft.8,	$\frac{1}{4}$ in. Mesh	...	...	2	14	6
"	$\frac{5}{16}$ in. "	...	...	2	12	3	"	$\frac{5}{16}$ in. "	...	...	2	14	6
"	$\frac{3}{8}$ in. "	...	...	2	12	3	"	$\frac{3}{8}$ in. "	...	...	2	14	6
"	$\frac{1}{2}$ in. "	...	...	2	3	0	"	$\frac{1}{2}$ in. "	...	...	2	5	6
"	$\frac{5}{8}$ in. "	...	...	2	3	0	"	$\frac{5}{8}$ in. "	...	...	2	5	6
"	$\frac{3}{4}$ in. "	...	...	2	3	0	"	$\frac{3}{4}$ in. "	...	...	2	5	6

### Navy Barrow.

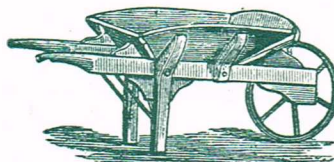


No. P 7123

ORDINARY SIZE.

Price ... 15/3 each.

### Navy Barrow.

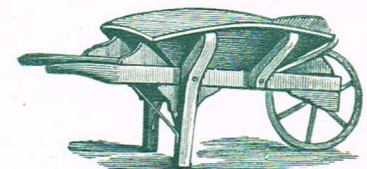


No. P 7124

LARGE SIZE.

Price ... 16/3 each.

### Navy Barrow.



No. P 7125

EXTRA LARGE SIZE.

Price ... 17/3 each.

Either of the above fitted with Wood Wheel, 5/3 each extra; Patent Wrought Wheel, 5/3 each extra; ordinary Wrought-iron Wheel, 2/6 each extra.

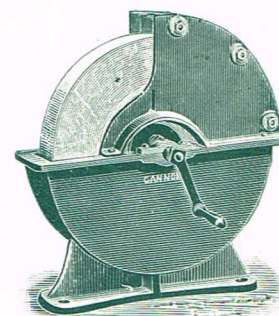


## BEST GRINDSTONES, MOUNTED IN TROUGHS.



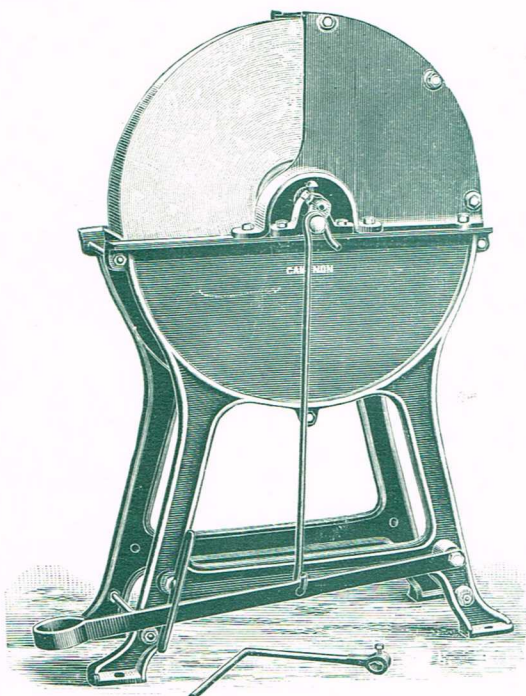
No. P 7126

Size of Stone in inches.	No. P 7126 Without Hood.	No. P 7127 With Hood.
8 × 1½	7/9	9/6
10 × 2	9/6	12/6
12 × 2	12/-	14/6
14 × 2½	14/6	17/3
16 × 3	18/-	21/-
18 × 3	25/-	30/-



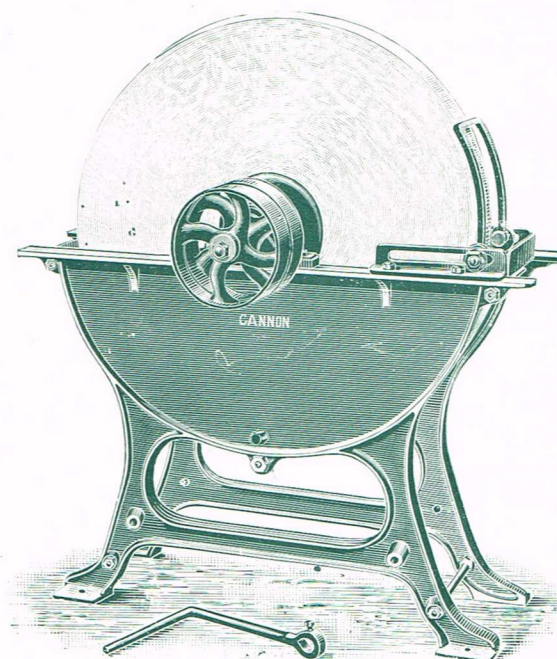
No. P 7127

Fitted with Handle and Treadle, and Screwed Plug at bottom of trough to let water off.



No. P 7129

With Fast and Loose Pulleys, and fitted with Tool Rest as engraved.



No. P 7130

Size of Stone in inches.	No. P 7128 Without Hood.	No. P 7129 With Hood.
16 × 3	38/9 each.	42/3 each.
18 × 3	41/9 "	46/6 "
20 × 3	44/9 "	50/6 "
22 × 3½	47/6 "	55/- "
24 × 3½	50/6 "	59/- "

Extras		to 20in.	22 to 24in.
Fitted with Water-can and Tap	...	7/3	7/3
" " Fast and Loose Pulleys instead of Treadle	...	10/6	13/6

Size of Stone in inches.	No. P 7130 With Fast and Loose Pulleys and Tool Rest.	No. P 7131 With Fast Pulley only and Tool Rest.
26 × 4	102/6 each.	93/- each.
28 × 4	104/- "	95/- "
30 × 4	106/- "	96/6 "
36 × 4	178/6 "	167/6 "

Extras		to 30in.	36in.
Fitted with Water-can and Tap	...	7/3	9/-
" " Hood	...	13/3	18/-

## UNMOUNTED GRINDSTONES.

No. P 7132

Size.			Size.			Size.		
Diameter.	Thick.	Price.	Diameter.	Thick.	Price.	Diameter.	Thick.	Price.
14in. ×	2½in.	4/- each.	22in. ×	3½in.	8/6 each.	30in. ×	4in.	17/3 each.
16in. ×	3in.	5/3 "	24in. ×	3½in.	9/9 "	32in. ×	4½in.	23/- "
18in. ×	3in.	6/- "	26in. ×	3½in.	12/- "	34in. ×	4½in.	27/3 "
20in. ×	3½in.	7/- "	28in. ×	4in.	15/- "	36in. ×	5in.	39/- "

Customers are requested to specify with orders when stones are required for any special purposes, and care will be taken to select the grit most suitable.



**Pick-axe.**



No. P 7133

**Road-pick.**



No. P 7134

**Mattock.**



No. P 7135

No. P 7133	4½ lbs. to 6 lbs. each	43/- per cwt.
" P 7134	6 lbs. each and upwards	41/- "
" P 7135	WARRANTED.	

**Road Wedges.**



No. P 7136

21 to 24in. long, 1½in. Round or Octagon	41/- per cwt.
--	---------------

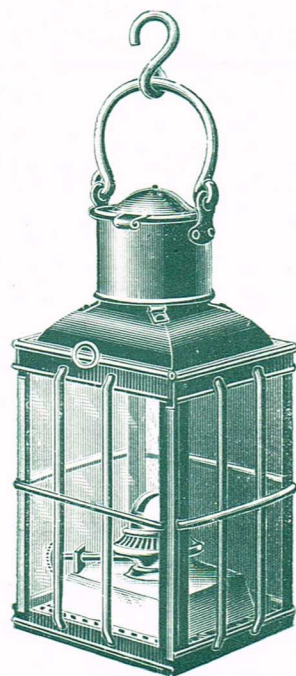
**Contractors' Road Lamps.**



No. P 7141

Strong Road Lamp, fitted with two ruby and two clear glasses.

Price, 41/- per doz.

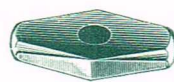


No. P 7142

Extra Strong Road Lamp. Will not blow out. Fitted with two ruby and two clear glasses.

Price, 68/- per doz.

**Stone-breakers' Hammers.**



No. P 7137

12 oz. and upwards,  
10d. per lb.



No. P 7138

12 oz. and upwards,  
1/2½ per lb.

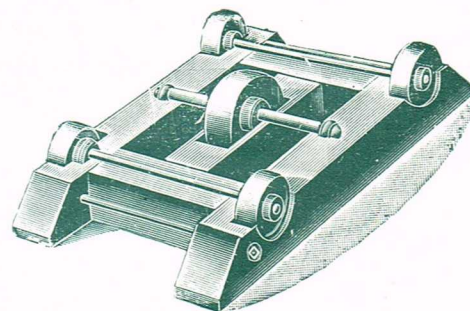
**Best C.S. Cold Chisels.**



No. P 7139

Price up to 7in.	7d. each.
" 7in. and over	1/2½ per lb.

**Five-wheel Bogie Truck.**



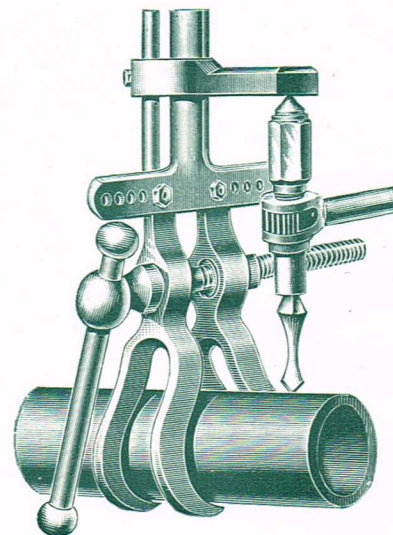
No. P 7140

Illustration shows Truck upside down to shew position of wheels

Size of platform is 22in. long, 16in. wide.  
Height of Truck, 5in. Diameter of wheels, 4in.  
To carry 25 cwt.

Price ... 30/6 each.

**Claw-drilling and Tapping Apparatus.**



No. P 7143

For Drilling Water and Gas Mains.

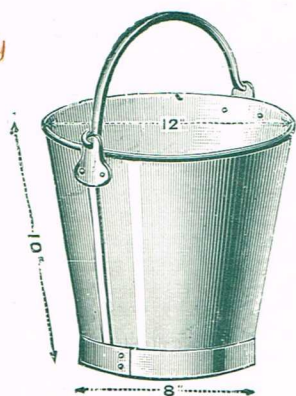
To drill 2 to 6in. pipes	£4 1 6
" 3 " 10in. "	5 2 0
" 8 " 16in. "	6 16 0

Ratchet Braces and Drills extra.



## GALVANIZED IRON BUCKETS.

Light Galvanized Bucket.

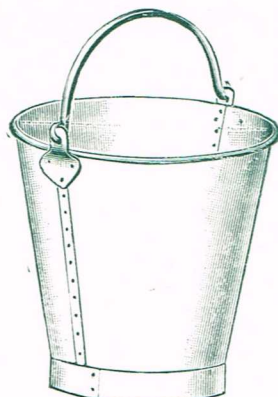


No. P 7144

Seamed sides, suitable for Painters' use.

Sizes	10	11	12in.
Prices	10/3	11/6	12/9 per doz.

Light Galvanized Bucket.

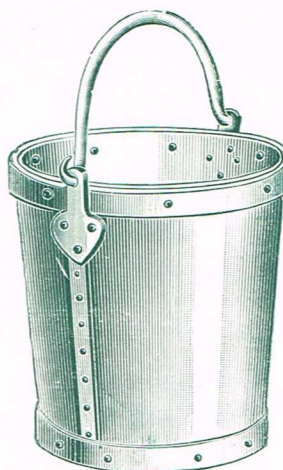


No. P 7145

Rivetted sides, suitable for Painters' use.

Sizes	11	12	13in.
Prices	17/9	19/9	22/6 per doz.

Strong Galvanized Bucket.

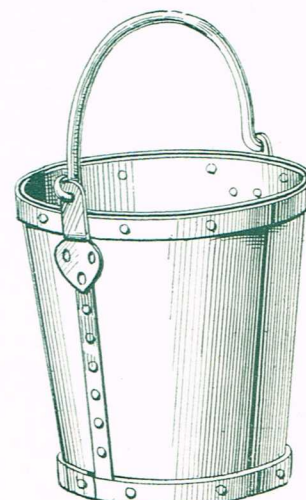


No. P 7146

Rivetted one side, forged Ears and Bail, forged band top and bottom, made especially for Builders' use.

Sizes	12	13	14in.
Prices	44/3	49/3	55/- per doz.

Extra Strong Galvanized Bucket.

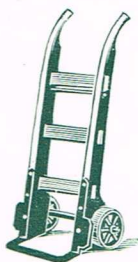


No. P 7147

Similar to No. P 7146, but made very much stronger, and strapped back and front.

Sizes	12	13	14in.
Prices	59/-	64/9	72/9 per doz.

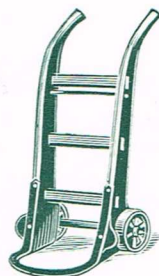
Sack Truck.



No. P 7148

3ft. 7 high, 7 1/2 in. wheels ... 17/3  
India-rubber Tyres, 9/6 extra.

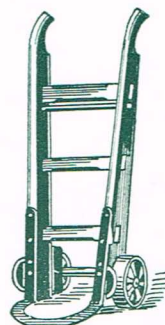
Sack Truck.



No. 7149

3ft. 9 high, 8 in. wheels ... 19/-  
India-rubber Tyres, 10/9 extra.

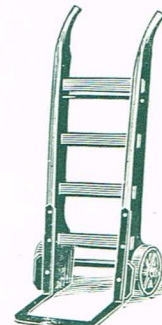
Sack Truck.



No. P 7150

4ft. high, 9 in. wheels ... 23/6  
India-rubber Tyres, 12/3 extra.

Sack Truck.



No. P 7151

4ft. 6 high, 10 in. wheels ... 38/3  
India-rubber Tyres, 16/- extra.

Ratchet Bottle Jack.

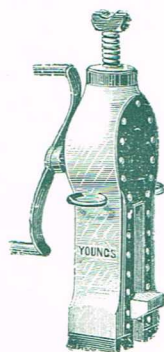


No. P 7152

Malleable Case.

Tested to Tons.	Height when down.	Price.
2	8 3/4 in.	15/-
4	14 1/4 in.	20/6
6	20 in.	32/6
8	21 in.	38/6
12	26 in.	50/-

Hayley Jack.

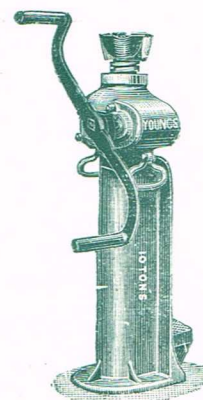


No. P 7153

Wood Case.

Tested to Tons.	Height when down.	Price.
2	28 in.	62/-
4	30 in.	76/6
6	31 in.	88/-
10	33 in.	115/6
12	35 in.	147/6

Hayley Jack.

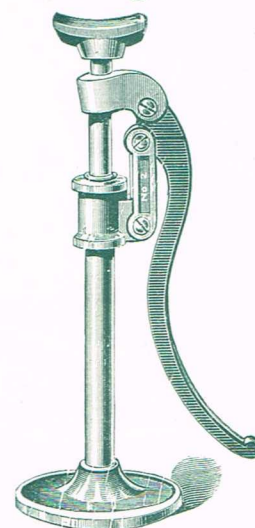


No. P 7154

Malleable Case.

Tested to Tons.	Height when down.	Price.
2	25 in.	64/6
4	26 in.	81/-
6	28 in.	91/9
8	30 in.	110/6
10	31 in.	125/-
12	33 in.	158/-

Carriage Jack.



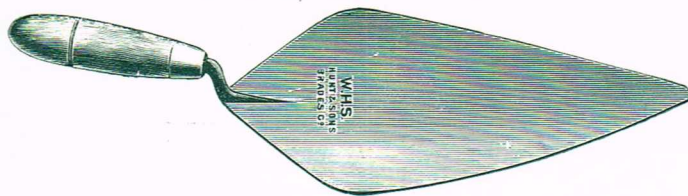
No. P 7155

These Jacks are light and portable, and are safer and quicker in action than any of the old type.

No.	Height.	Lift to	For Vehicles.	Price.
1A	14 in.	20 in.	10 cwt.	7/6
2	18 in.	25 in.	10 "	8/6
3	22 in.	29 in.	20 "	11/6
4	17 & 27 in.	19 & 29 in.	30 "	17/-



**C.S. Brick Trowel.**



No. P 7170

Sizes	9	9½	10	10½	11	11½	12	12½	13 in.
Prices	3/-	3/2	3/3	3/4	3/4	3/5	3/6	3/8	3/9 each.

**C.S. Plasterer's Trowel.**



No. P 7171

Sizes	11	11½	12 in.
Prices	2/7	2/9	2/10 each.

**Club Hammer.**



No. P 7172

2½ lbs. and up.  
Price, 1/- per lb.

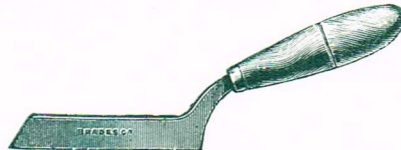
**C.S. Pointing Trowel.**



No. P 7173

Sizes	4	5	5½	6	6½	7	7½	8 in.
Prices	1/1	1/4	1/6	1/7	1/9	1/10	2/-	2/2 each.

**Mason's Jointer.**



No. P 7174

Size, 5 in. long, 1⅝ to 3 in. wide.  
Price, 1/9 each.

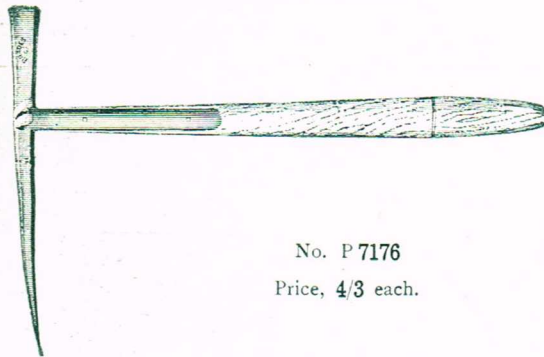
**C.S. Gauging Trowel.**



No. P 7175

Sizes	6	6½	7	7½	8	9	10 in.
Prices	2/2	2/3	2/4	2/5	2/6	2/8	2/11 each.

**Slater's Hammer.**



No. P 7176  
Price, 4/3 each.

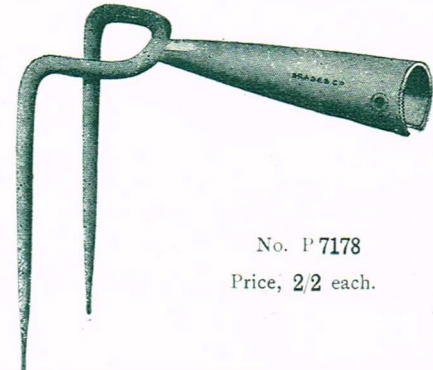
**Brick Hammer.**



No. P 7177

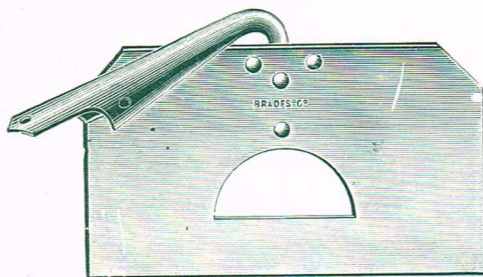
Price with handle,  
2/1 each.

**Mortar or Hair Hook.**



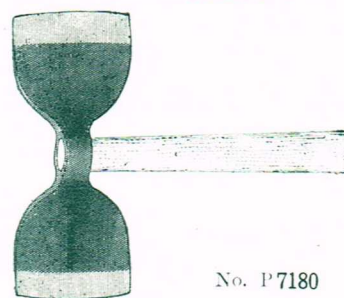
No. P 7178  
Price, 2/2 each.

**Mortar Larrie.**



No. P 7179  
Price, 2/3 each.

**Brick Dresser.**



No. P 7180  
Price, 2/8 each.

**Double Bolster.**



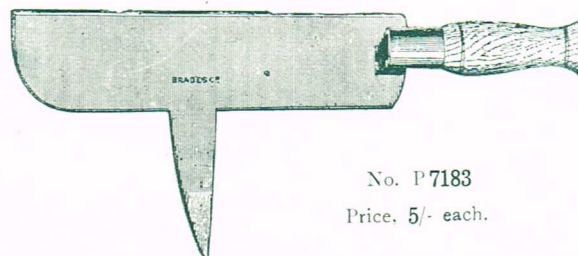
No. P 7181  
Price, 2/8 each.

**Block Iron.**



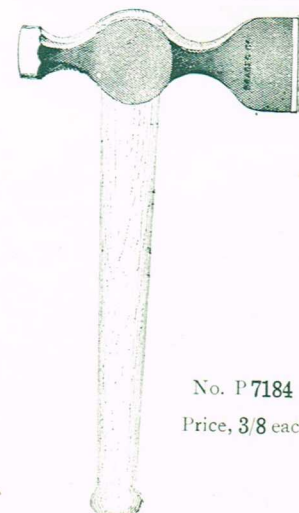
No. 7182  
Price, 3/- each.

**Slater's Axe.**



No. P 7183  
Price, 5/- each.

**Scaffold Hammer**



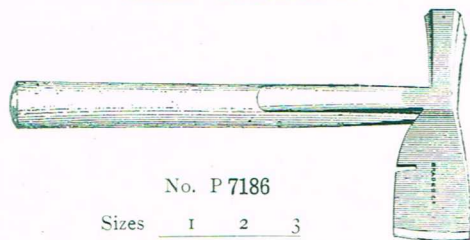
No. P 7184  
Price, 3/8 each

**Slate Ripper.**

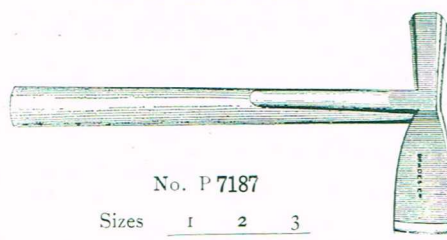


No. P 7185  
Best Cast Steel, 30 in. long. Price, 4/9 each.



**Lath Hammer.**

No. P 7186  
 Sizes 1 2 3  
 Prices 2/- 2/2 2/5 each.

**Plasterer's Hammer.**

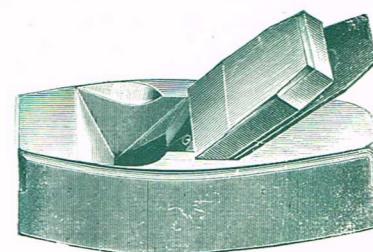
No. P 7187  
 Sizes 1 2 3  
 Prices 2/- 2/2 2/5 each.

**Plasterer's Joint Rule.**

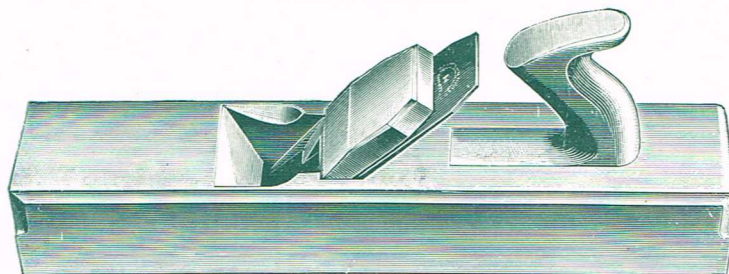
No. P 7188  
 4in and upwards, 1½d. per inch.

**Trying Plane.**

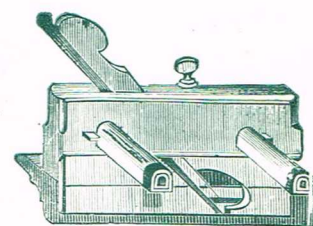
No. P 7200  
 Length ... 22in.  
 Size of Irons ... 2½in.  
 Price ... 7/6 each.

**Smooth Plane.**

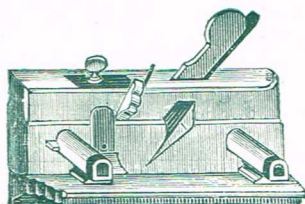
No. P 7201  
 Sizes 2 2½ 2½ in.  
 Prices 4/- 4/8 5/9 each.

**Jack Plane.**

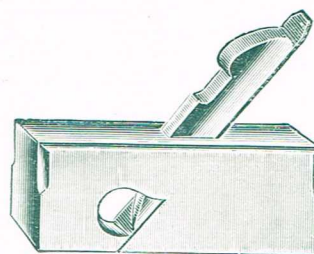
No. P 7202  
 Length ... 17 17 in.  
 Size of Irons ... 2½ 2½ in.  
 Price ... 5/9 6/8 each.

**Plough Plane.**

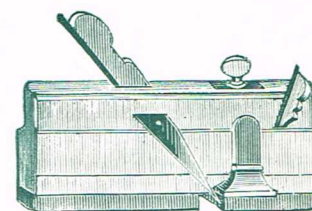
No. P 7203  
 Complete with Eight Best C.S. Irons  
 and Screw Stop.  
 Price .. 16/6 each.

**Sash Fillister.**

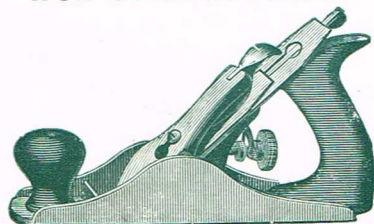
No. P 7204  
 With Screw Stop and Capped Stems, 13/3 each.

**Skew Rabbit Plane.**

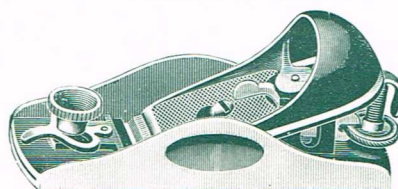
No. P 7205  
 Sizes to 1¼ 1½ in.  
 Prices 2/9 3/2 each.

**Moving Fillister.**

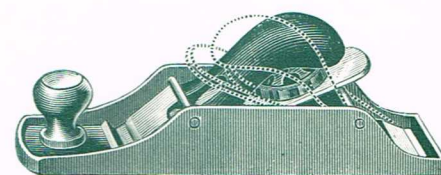
No. P 7206  
 With Screw Stop and Forked Tooth, 11/- each.

**Iron Smooth Plane.**

No. P 7207  
 Lengths ... 8 9 10 in.  
 Irons ... 1¼ 2 2½ in.  
 Prices ... 8/6 9/3 10/8 each.

**Iron Block Plane.**

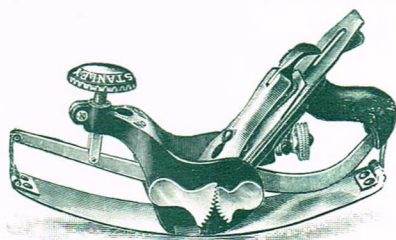
No. P 7208  
 Length ... 6in.  
 Iron ... 1½in.  
 Price ... 4/3 each.

**Iron Block Plane,  
Double-ended.**

No. P 7209  
 Length ... 6in.  
 Iron ... 1½in.  
 Price ... 2/3 each.



### Adjustable Circular Plane.



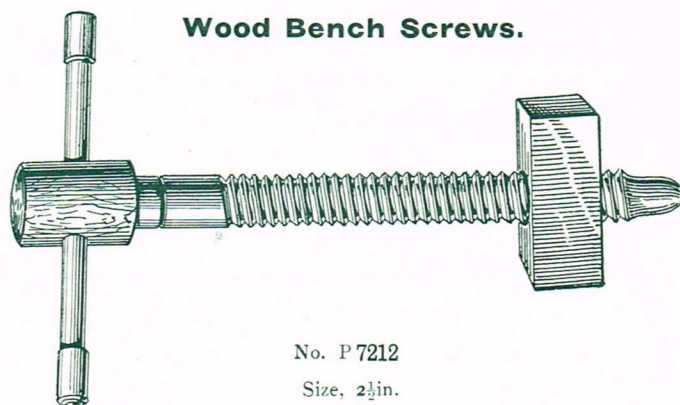
No. P 7210

This Plane has a Flexible Steel Face, which can be easily shaped to any required arc, either concave or convex, by turning the Knob on the front of the Plane.

Size of iron, 1 3/8 in.

Price ... 11/3 each.

### Wood Bench Screws.

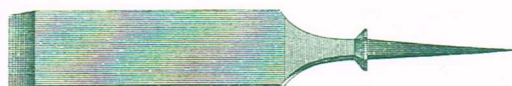


No. P 7212

Size, 2 1/2 in.

Price ... 1/5 each.

### C.S. Firmer Chisels, not Handled.



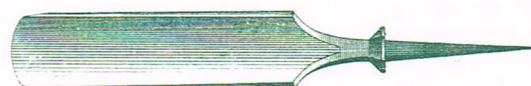
No. P 7220

Sizes to 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 in.

Prices ... 5d. 5d. 5 1/2 d. 6d. 6 1/2 d. 7d. 8d. 8 1/2 d. 1/- 1 1/4 1 3/4 1 6 1 10 each.

Bevilled prices } 9d. 9 1/2 d. 10d. 10 1/2 d. 11d. 11 1/2 d. 1/- 1 1/4 1 5/8 1 7 1 9 2 2 2 6 "

### C.S. Firmer Gouges, not Handled.



No. P 7221

Sizes to 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 in.

Prices ... 5 1/2 d. 6d. 6d. 7d. 7d. 8d. 8 1/2 d. 9 1/2 d. 10d. 1 1/2 1 3 1 5 1 9 2 2 each.

EXTRAS. Cannelled inside to 1 in., 1/2 d. each extra.

" " " 1 1/2 in., 1d. "

### C.S. Firmer Chisels, Round, Beech, or Ash Handles, with Brass Ferrules.



No. P 7222

Sizes 1/4 1/8 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 1 5/8 1 7/8 2 in.

Prices ... 7 1/2 d. 8d. 8d. 8 1/2 d. 8 1/2 d. 9d. 10d. 11d. 11 1/2 d. 1 1/4 1 1/2 1 4 1 5 1 5 1 9 2 8 each.

### C.S. Firmer Gouges, Round, Beech, or Ash Handles, with Brass Ferrules.



No. P 7223

Sizes 1/4 1/8 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 1 5/8 1 7/8 2 in.

Prices ... 8 1/2 d. 8 1/2 d. 9d. 9 1/2 d. 10d. 10 1/2 d. 11d. 1/- 1 1 1 3 1 5 1 6 1 7 2 1 2 6 each.

### C.S. Socket Chisels.



No. P 7224

Sizes 1/2 3/4 1 1 1/4 1 1/2 1 3/4 in.

Prices ... 1 1 1 2 1 3 1 4 1 5 1 7 1 9 each.

### C.S. Turning Chisels.



No. P 7225

Sizes 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 1 1/2 in.

Prices ... 6 1/2 d. 7d. 8d. 8 1/2 d. 10d. 11d. 1 1 1 2 1 4 1 5 1 8 each.

### Best C.S. Plane Irons.



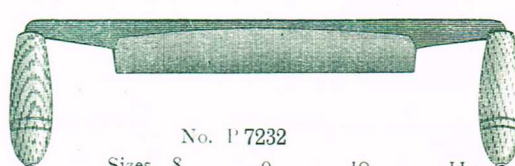
No. P 7226

Sizes 2 2 1/2 2 3/4 2 7/8 2 1/2 in.

Single-cut ... 10 1/2 d. 11d. 1 1 1 2 1 3 each.

Double-cut ... 1 7 1 8 1 11 2 1 2 3 "

### C.S. Drawing Knife.



No. P 7232

Sizes 8 9 10 11 12 in.

Prices ... 2 6 2 8 2 10 3 1 3 4 each.

### C.S. Brad Punches.



No. P 7233

Brad Punch ... 2/- doz.

Floor " ... 3/- "

### C.S. Hollow Punch.



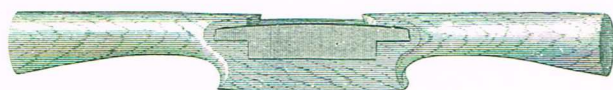
No. P 7234

Nos. ... 1 to 6 8 10 12 14 16

Diameter 1/8 to 1/4 1/2 3/4 1 1 1/2 in.

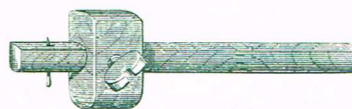
Prices ... 4 9 6- 8- 11- 15- 20/- doz.



**Spokeshave with C.S. Iron.**

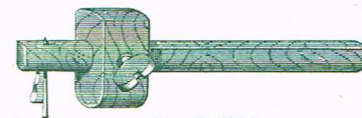
No. P 7235

		Sizes			
		2½	3	3½	4 in.
No. P 7235	Beech	11d.	1/1	1/4	1/5 each.
" P 7235A	Boxwood	1/5	1/7	1/11	2/3 "

**Beech Marking Gauge.**

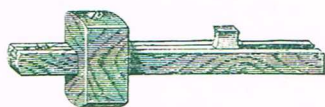
No. P 7236

Price, 10d. each.

**Beech Cutting Gauge.**

No. P 7237

Price, 1/- each.

**Mortise Gauge.**

No. P 7238

Ebony Thumb Slide.

Price, 4/9 each.

**C.S. London Pattern Turnscrew.**

No. 7239

		Sizes									
		3	4	5	6	7	8	9	10	12 in.	
Prices		8d.	9d.	10½d.	1/-	1/3	1/5½	1/7½	2/-	2/7	each.

**Pricker Pad.**

No. P 7241

Price with eight Tools, 1/4 each.

**C.S. London Pattern Cabinet Turnscrew.**

No. P 7240

Beech handles.

		Sizes									
		3	4	5	6	7	8	9	10	12 in.	
Prices		9d.	10½d.	1/-	1/3	1/5½	1/7½	2/-	2/7	3/-	each.

**Marking Awl.**

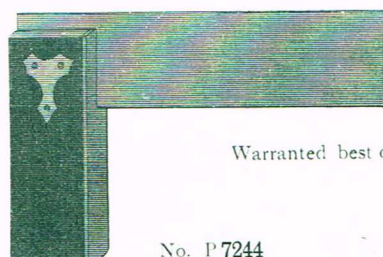
No. P 7242

Price, 6d. each.

**Striking Knife.**

No. P 7243

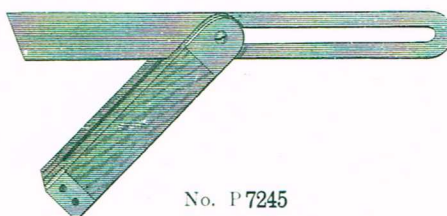
Price, 5d. each.

**Rosewood Plated Square.**

Warranted best quality.

No. P 7244

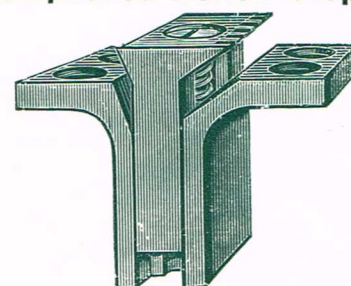
		Sizes					
		4½	6	7½	9	10½	12 in.
Prices		1/9	2/-	2/3	2/7½	3/5	3/11 each.

**Sliding Bevels.**

No. P 7245

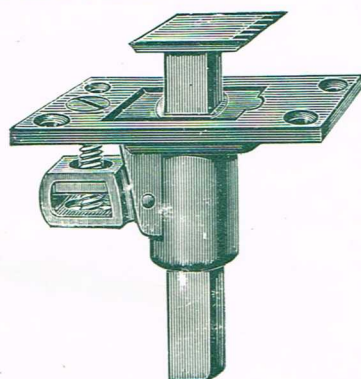
Rosewood.

		Sizes				
		7½	9	10½	12	15 in.
Prices		2/6	2/10	3/2	3/5	4/4 each.

**Improved Bench Stop.**

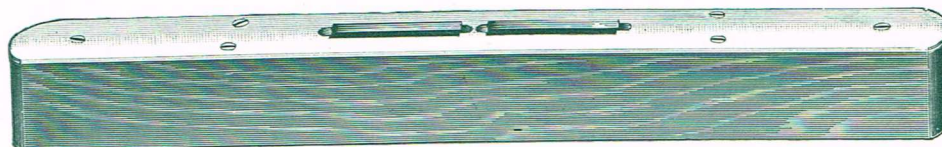
No. P 7250

Price, 1/9 each.

**Morrill's Pattern Bench Stop.**

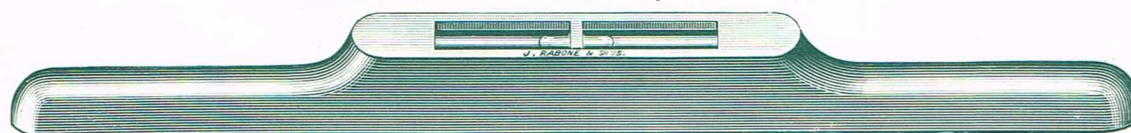
No. P 7251

Price, 2/- each.

**Spirit Levels.** Warranted correct.

No. P 7255

		Sizes				
		6	8	9	10	12 in.
No. P 7255	Plated top	10d.	1/1	1/3	1/4	1/7 each.
" P 7256	Plated top, tipped bottom	1/3	1/6	1/9	1/10	2/- "
" P 7257	Plated top and bottom	1/9	2/-	2/6	2/9	3/6 "

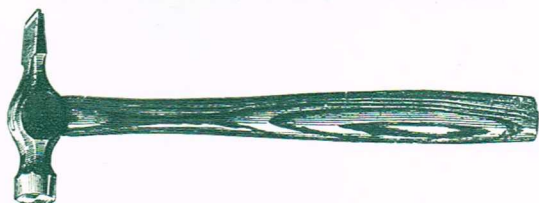
**Gun-metal or Iron Spirit Level.**

No. P 7258

		Sizes		
		6	9	12 in.
No. P 7258	Gun-metal	2/-	3/-	4/6 each.
" P 7259	Iron, Nickel-plated	1/9	2/1	3/6 "



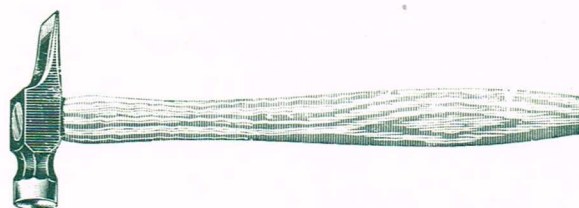
**Solid C.S. Joiner's Hammer.**



No. P 7262

Size Nos.	1	2	3	4	5	6	7	8	9	10
Prices	11d.	1/-	1/1	1/2	1/4	1/6	1/8	2/-	2/4	2/10 each.

**Exeter Hammer.**

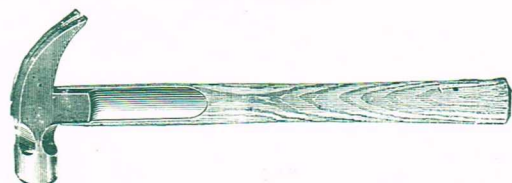


No. P 7263

Size Nos.	1	2	3	4	5	6	7	8
Prices	11d.	1/-	1/2	1/5	1/7	1/10	2/-	2/3 2/6 each.

**Best Canterbury Hammer.**

Oval Handles.



No. P 7264

Size Nos.	1	2	3	4	5	6	7	8
Prices	1/4	1/6	1/9	1/11	2/2	2/4	2/8	3/- each.

**Upholsterer's Hammer.**

Oval Beech Handles.

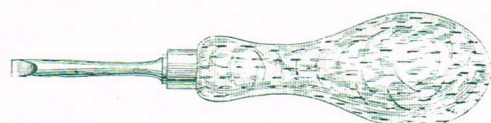


No. P 7265

Size Nos.	1	2	3
Prices	1/6	1/9	2/- each.

**Brad-awl.**

Polished Oval Ash or Beech Handles.

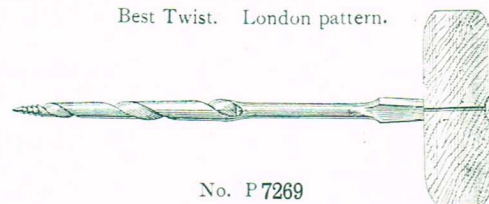


No. P 7268

	Small.	Medium.	Large.
Prices	1/9	2/2	2/9 per doz.

**Gimlet.**

Best Twist. London pattern.

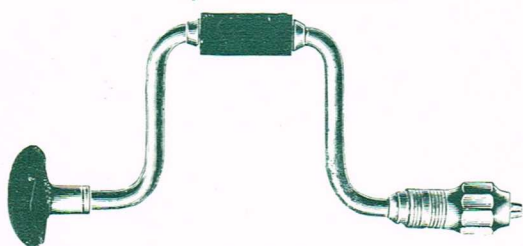


No. P 7269

	Small.	Medium.	Large.
Prices	4/-	5/-	6/- per doz.

**Joiner's Steel Brace.**

Barber's pattern. Steel Frame.



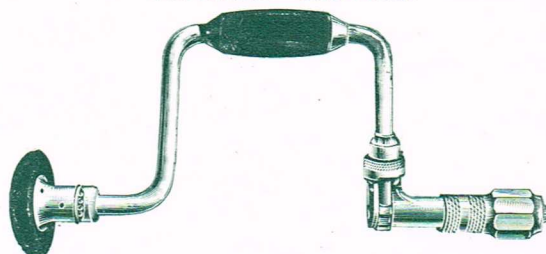
No. P 7271

Ebonized Head and Handle.

	Sizes 8	10 in. sweep.
Prices	2/9	3/2 each.

**Joiner's Ball Bearing Brace.**

With Ratchet. Steel Frame.



No. P 7272

Bright Frame. Hardwood Head and Handle.

	Sizes 10	12 in. sweep.
No. P 7272	With Ratchet	7/3 8/3 each.
No. P 7272 A	Without Ratchet	5/6 6/4 "

**Best Cast Steel Centre Bits.**

Black.



No. P 7277

Sizes to	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	1 3/4	1 1/2 in.
Prices	4 1/2 d.	4 1/2 d.	4 1/2 d.	5 d.	5 d.	5 1/2 d.	6 d.	6 1/2 d.	7 1/2 d.	8 1/2 d.	9 1/2 d. each.

No. P 7277 A Black Nose Bits or Black Shell Bits.

Sizes to	3/8	1/2	3/4	1	1 1/4
Prices	4 d.	5 d.	6 d.	9 d.	1/- each.

No. P 7278 Square or Half-round Rinders ... 4 d. each.

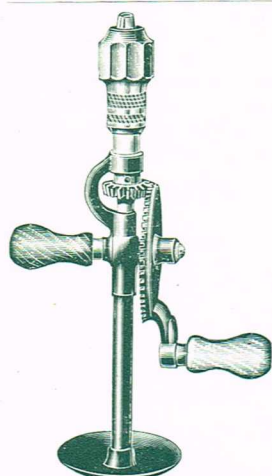
No. P 7278 A Turnscrew Bits, plain or forked ... 4 d. "

No. P 7279 Rose Countersunk Bits, to 5/8 in. ... 5 d. "

**Breast Drill,**

With Six Drill Bits.

No. P 7274

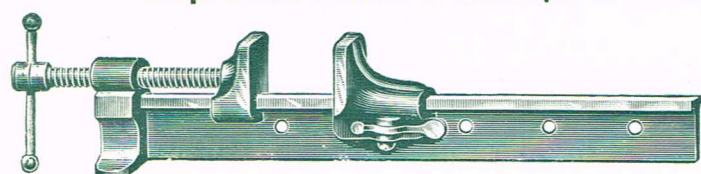


Size Nos.	1	2	3
Prices	8/-	9/9	11/6 each.



## JOINERS' CRAMPS.

## Improved Joiner's Cramp.



No. P 7280

Measurements are over all.

Length	42	48	54	60	66	72	78	84 in.
Price with spring catch...	18/-	18/9	19/6	20/6	21/-	21/9	22/6	23/6
" " peg and chain	15/3	16/3	17/-	18/-	18/9	19/6	20/6	21/-

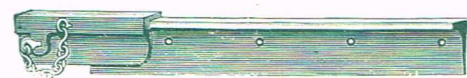
## Cramp Holder.



No. P 7281

Price ... 2/3 each.

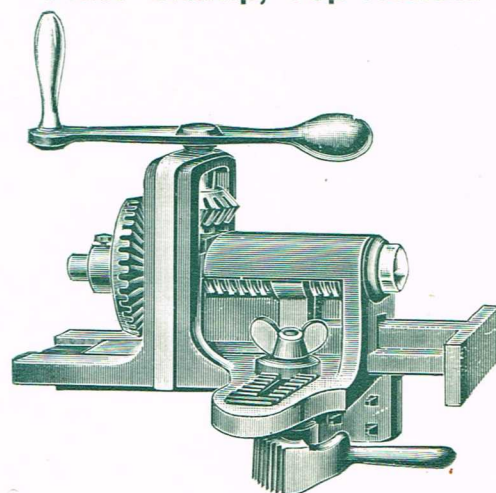
## Lengthening Piece.



No. P 7282

Length	30	36	42	48	54	60	66 in.
Price ...	6/9	7/9	8/6	9/6	10/3	11/-	11/9 each.

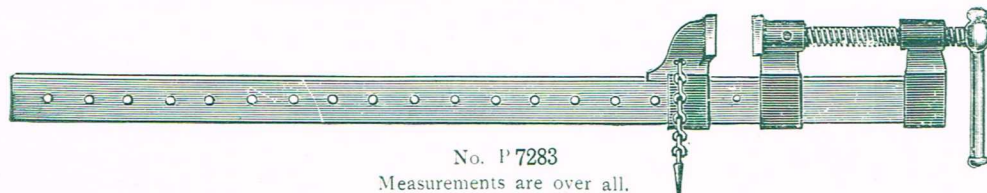
## Floor Cramp, Top Action.



No. P 7288 BEST QUALITY.

To suit joists	...	2in. to 4½in.	2in. to 6in.
Price	...	21/-	21/9 each.
No. P 7289 SECOND QUALITY.			
Price	...	15/9	16/3 each.

## Improved Sash Cramp.

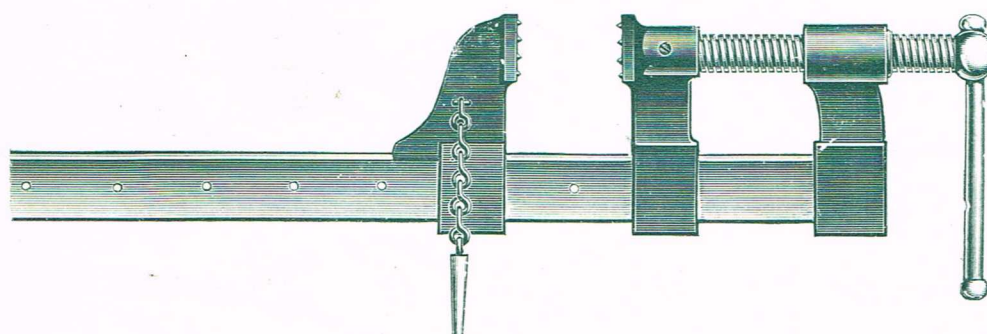


No. P 7283

Measurements are over all.

Length	24	27	30	33	36	42	48 in.
Price with black iron fittings	...	...	6/3	6/6	7/-	7/3	7/9
" " bright brass "	...	...	15/3	15/9	16/3	16/6	17/-
						17/6	18/3

## Joiner's Ordinary Cramp.



No. P 7284

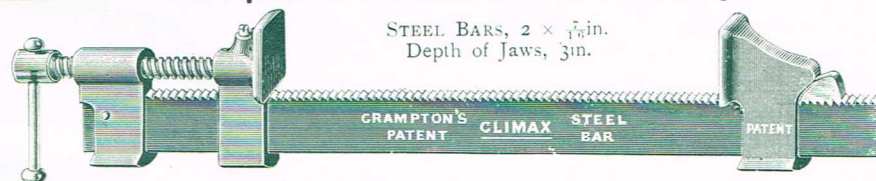
Bar, 1½ x 3in. Black, with Bright Screw and Handle.  
Measurements are over all.

Length	36	42	48	54	60	66	72 in.
Price...	12/3	12/9	13/9	14/-	14/9	15/6	16/3 each.

## No. P 7285 Lengthening Bars to suit above.

Length	36	42	48	54	60 in.
Price...	6/6	7/3	7/8	8/6	9/- each.

## Crampton's Patent Joiner's Cramp.

STEEL BARS, 2 x 1/4in.  
Depth of Jaws, 3in.

No. P 7286

Measurements are over all.

Length	36	42	48	54	60	66	72	84 in.
Price	...	21/9	21/9	21/9	23/9	24/3	26/3	28/-
								30/6 each.

No. P 7287 Lengthening Bars for above.  
3/3 per ft.

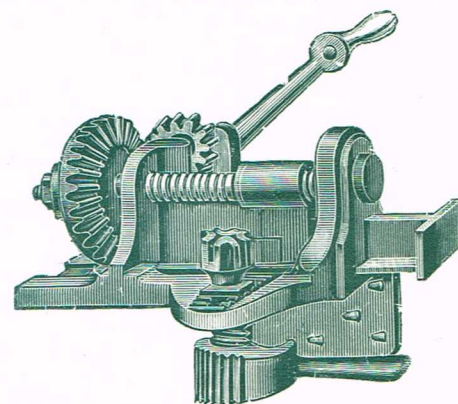
## Plumb Bob.



No. P 7295 Best Cast-iron Finished Black.

Weight	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2 lbs.
Price...	9d.	10d.	11d.	1/-	1/2	1/3	1/5 each.

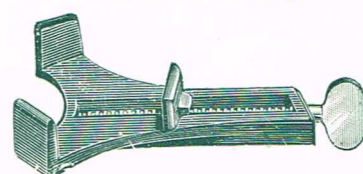
## Floor Cramp, Bissell's Pattern.



No. P 7290 BEST QUALITY.

To suit joists	...	2in. to 4½in.	2in. to 6in.
Price	...	18/3	18/9 each.
No. P 7291 SECOND QUALITY.			
Price	...	13/3	14/- each.

## Corner Cramp.

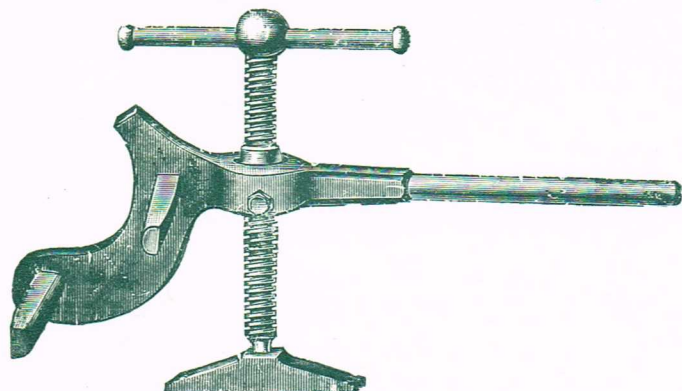


No. P 7293

To cramp moulding	...	1 1/4in.	2in.	4in.
Price	...	1/-	1/5	2/- each.

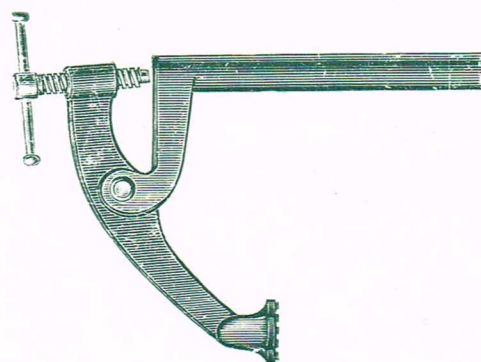


**Kimberley Pattern Floor Cramp.**



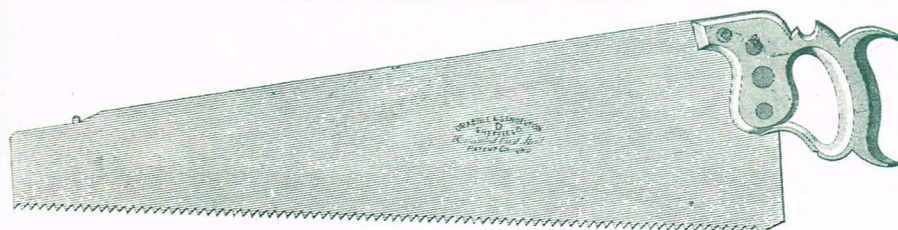
No. P 7297  
To suit Joists, 1½ to 3½ in.  
Price, 19/3 per pair.

**Bench Holdfast (black).**



No. P 7298  
Size of Pillars, 14 x 1 in.  
Price, 5/6 each.

**Best C.S. Hand Saw.**



No. P 7300  
**Hand, Panel, and Ripping, same price.**

Sizes	14	16	18	20	22	24	26	28	30 in.
Prices	3/-	3/6	3/10	4/3	4/6	5/2	5/4	5/6	6/- each.

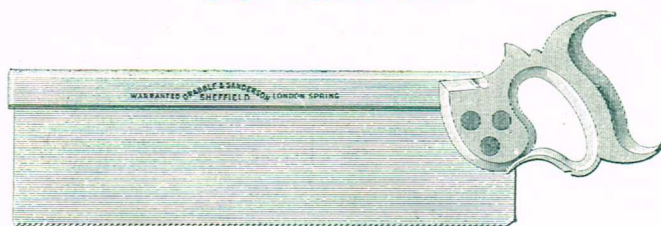
**C.S. Compass Saw.**



No. P 7302

Sizes	10	12	14	16	18 in.
Prices	1/5	1/6	1/7	1/9	1/10 each.

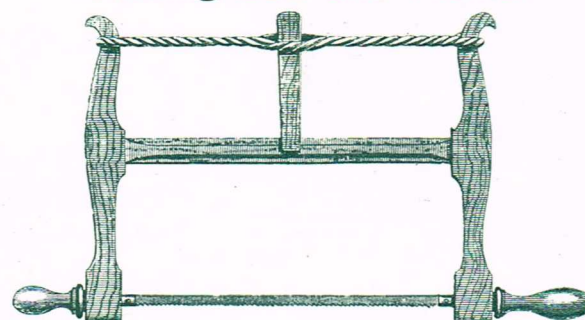
**C.S. Back Saw.**



No. P 7301

	Sizes	10	12	14	16	18 in.
Iron back	...	4/-	4/3	4/7	5/2	5/6 each.
Brass back	...	5/2	5/8	6/4	7/3	8/- "

**Turning Saw and Frame.**



No. P 7303

Sizes	10	12	14	16	18 in.
Prices	3/10	4/3	4/8	5/3	6/3 each.

**Webs, only for above.**

Sizes	10	12	14	16	18 in.
Prices	4d.	4d.	4d.	5d.	5d. each.

**C.S. Cross-cut Saws.**



No. P 7304

Sizes	3	3½	4	4½	5	5½	6	6½	7	8 feet.
Prices	8/6	8/6	8/6	9/6	11/6	12/-	14/6	15/6	19/9	25/- each.

**C.S. Stone Saw.**

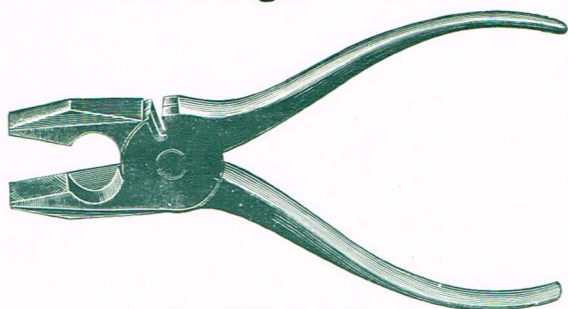


No. P 7305

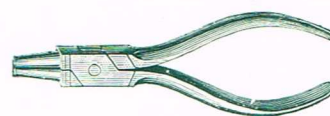
Sizes	5	5½	6	6½	7	7½	8 feet.
Prices	14/6	15/3	16/9	18/6	20/6	22/6	25/- each.

If exceeding 9in. wide, 2/3 per foot extra.



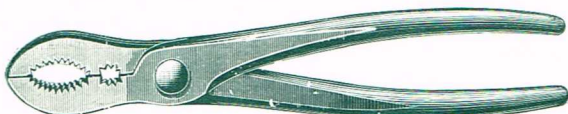
**Bell-hangers' Pliers.**

No. P 7036 Best Black.					
Sizes	5	5½	6	7	8 in.
Prices	1/7	1/8	1/9	2/4	3/3 each.

**Bright Round Nose Pliers.**

No. P 7307

Sizes	4½	5	5½	6	6½	7 in.
Prices	9d.	10d.	11d.	1/1	1/3	1/6 each.

**Best Finish Gas Pliers.**

No. P 7308					
Sizes	6	7	8	9	10 in.
Prices	1/5	1/7	2/1	2/6	3/- each.

**Black Flat Nose Pliers.**

No. P 7309							
Sizes		4½	5	5½	6	6½	7 in.
Prices	...	7d.	8d.	9d.	11d.	1/-	1/3 each.

**Inside Calipers.**

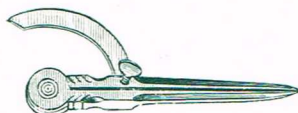
No. P 7312										
Sizes	3	4	5	6	7	8	9	10	12 in.	
Prices	...	1/2	1/5	1/9	1/11	2/3	2/7	2/11	3/3	4/- each.

**Egg Calipers.**

No. P 7313							
	Sizes	3	4	5	6	7	8 in.
Prices	...	1/5	1/5	1/9	2/1	2/6	2/9 each.

**Tower Pincers.**

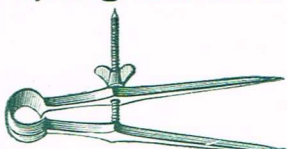
No. P 7316 Best Lancashire.						
Sizes	6	6½	7	8	9	10 in.
Prices	1/-	1/2	1/3	1/7	1/11	2/4 each.

**Wing Compasses.**

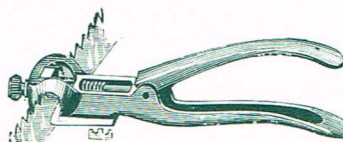
No. P 7318 Best Lancashire.						
Sizes	5	6	7	8	9	10 in.
Prices	2/-	2/4	2/7	2/10	3/1	3/5 each.

**Compasses.**

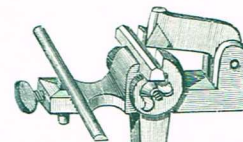
No. P 7319 Bright Rule Joint.						
Sizes	6	7	8	9	10	12 in.
Prices	11d.	1/1	1/4	1/8	1/11	2/9 each.

**Spring Dividers.**

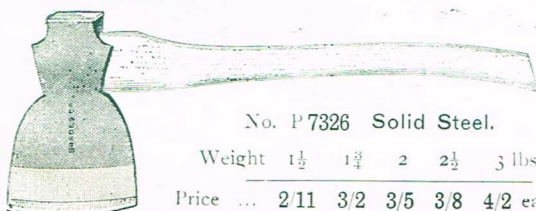
No. P 7320 Best Black Lancashire.				
Sizes	6	7	8 in.	
Prices	2/4	2/10	3/3 each.	

**Saw-set Plier.**

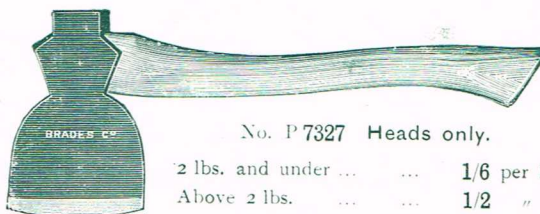
No. P 7322 Morrill's Pattern.	
Price	2/10 each.

**Saw-set.**

No. P 7323	
Price	5/- each.

**Handled Axe.**

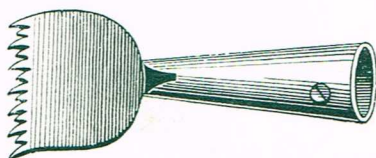
No. P 7326 Solid Steel.					
Weight	1½	1¾	2	2½	3 lbs.
Price	2/11	3/2	3/5	3/8	4/2 each.

**Kent Axe.**

No. P 7327 Heads only.			
2 lbs. and under	...	1/6	per lb.
Above 2 lbs.	...	1/2	"

**Felling Axe.**

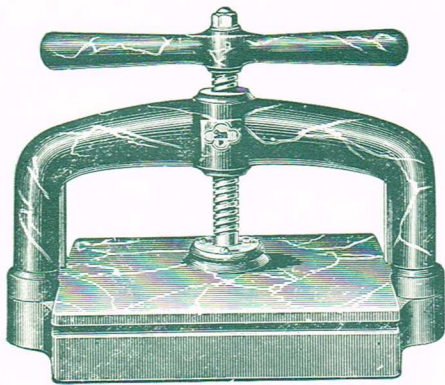
No. P 7328	
Heads only.	
3 lbs. and above,	1/2 per lb.

**Carpet Stretcher.**

No. P 7330		
8	10	12 teeth.
Price 2/10	3/2	3/6 each
Handles extra, 1/6 each.		



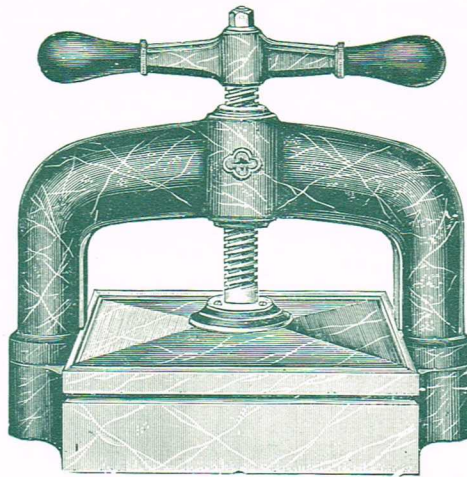
**Copying Press,**  
Plain.



No. P 7350

No. P 7350	Quarto, 12 x 10in.	...	£1 0 6
" P 7351	Foolscap, 15 x 10in.	...	1 7 0

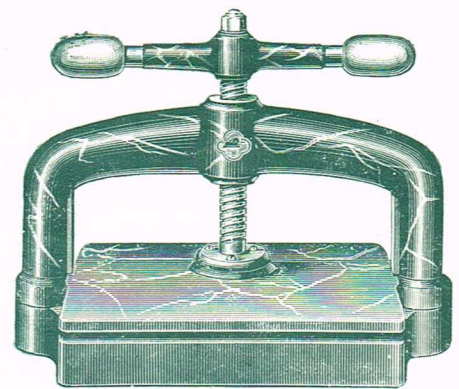
**Copying Press,**  
Very strong for heavy work.



No. P 7352

No. P 7352	18 x 12in.	...	£3 17 3
" P 7353	22 x 17in.	...	6 4 6

**Copying Press,**  
With Brass Ball Handles.



No. P 7354

No. P 7354	Quarto, 12 x 10in.	...	£1 7 0
" P 7355	Foolscap, 15 x 10in.	...	1 16 6

**Water Wells.**



No. P 7357 2/- each.



No. P 7358 2/2 each.

**Copying Sheets.**

Quarto, 2/6 Foolscap, 4/3 per ream.

**Oiled Sheets.**

Quarto, 1/3 Foolscap, 2/2 per doz.

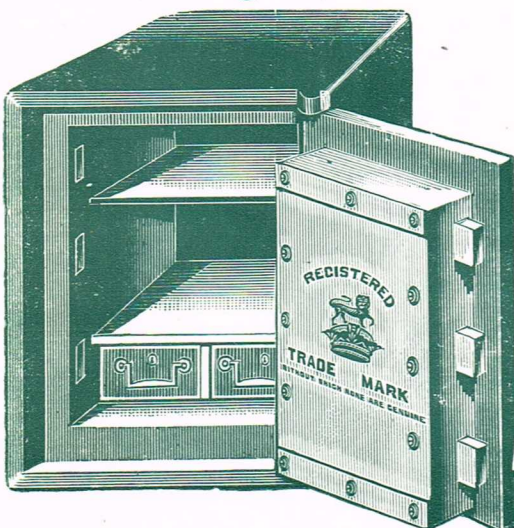
**Drying Sheets.**

Quarto, 1/2 Foolscap, 1/9 per doz.

**Camel-hair Damping Brushes.**

2in., 1/5 each. 3in., 2/- each.

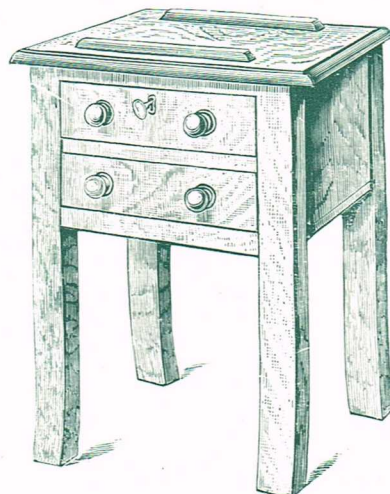
**Fire and Burglar-proof Safe.**



No. P 7360

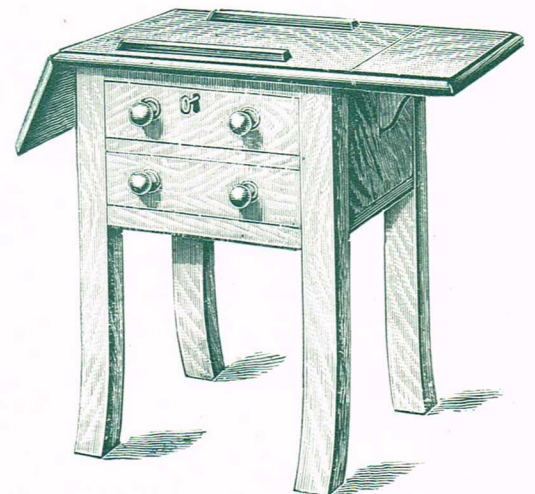
Sizes.	H. W. D.	Prices.
20 x 16 x 15in.	...	£3 16 6
22 x 17 x 16in.	...	4 5 0
24 x 18 x 17in.	...	4 16 0
26 x 19 x 18in.	...	5 3 6
28 x 20 x 19in.	...	5 13 6

**Copying Press Stands.**



No. P 07356

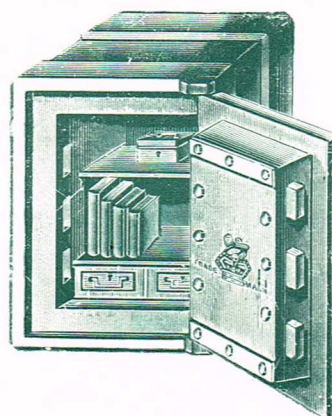
No. P 7356	One drawer.	...	£1 4 3
	12 x 10in.	...	1 9 3
	15 x 10in.	...	



No. P 7356

No. P 7356	Two drawers.	...	£1 6 9
	12 x 10in.	...	1 12 0
No. P 07356	Two Drawers and Flaps.	...	£1 16 3 each.
		...	2 2 9 "

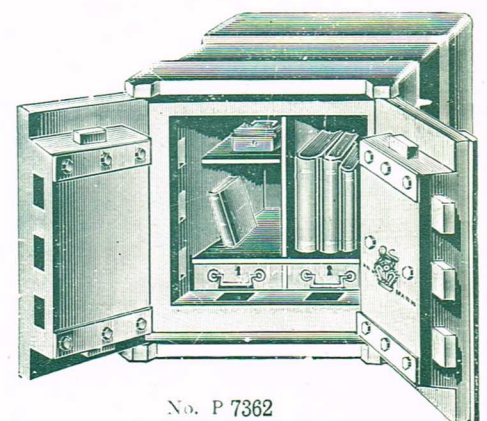
**Fire and Burglar-proof Safe.**



No. P 7361

Sizes.	H. W. D.	Prices.
24 x 18 x 17in.	...	£5 3 6
26 x 19 x 18in.	...	5 11 0
28 x 20 x 19in.	...	6 6 6
30 x 21 x 20in.	...	7 1 6
32 x 22 x 21in.	...	7 17 0

**Fire and Burglar-proof Safe.**

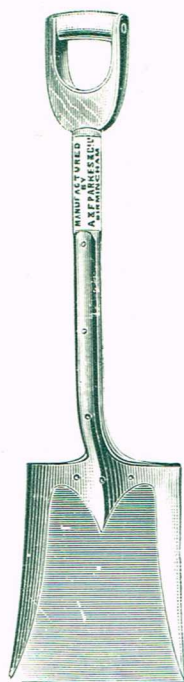


No. P 7362

Sizes.	H. W. D.	Prices.
30 x 30 x 20in.	...	£9 3 6
33 x 32 x 22in.	...	11 2 0
36 x 34 x 24in.	...	13 0 0
42 x 36 x 25in.	...	16 1 6
48 x 36 x 26in.	...	19 10 0



London Shovel.



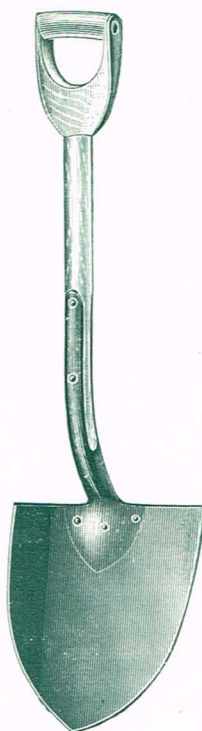
No. P 7370

Taper Shovel.



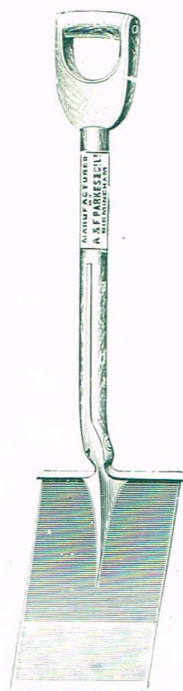
No. P 7371

Gravel Shovel.



No. P 7372

London Spade.



No. P 7374

Grafting Tool.

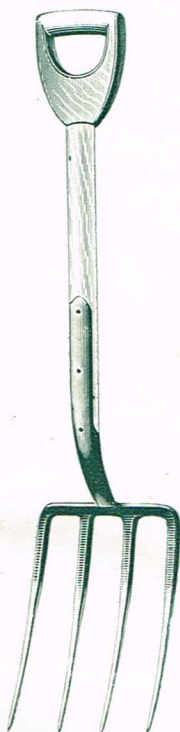


No. P 7375

		Size Nos.							
No.	P 7370 London Shovel	1	2	3	4	5	6		
"	P 7371 Taper "	55/-	59/-	61/-	66/-	70/-	72/-	per doz.	
"	P 7372 Gravel " Rivetted Eye Handle	—	57/6	62/6	66/-	69/-	—	"	
"	P 7372A " " Crutch Handle	—	52/6	55/-	60/-	62/6	—	"	

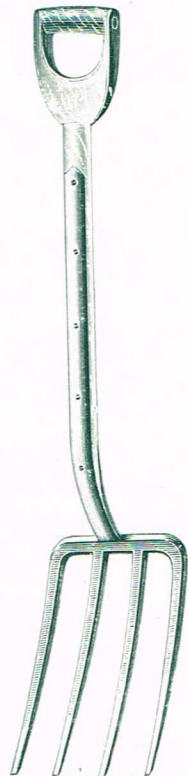
		Size Nos.				
No.	P 7374 London Spade	1	2	3		
"	P 7375 Grafting Tool	65/-	68/-	69/-	per doz.	
"		52/-	55/-	58/-	"	

Steel Digging Fork.



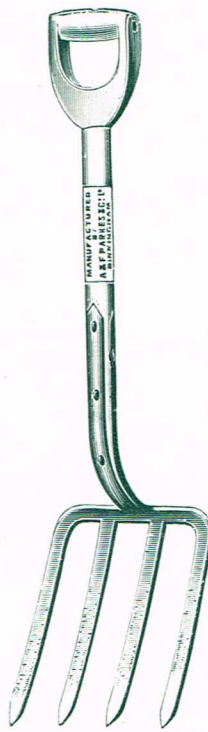
No. P 7376

Steel Lifting Fork.



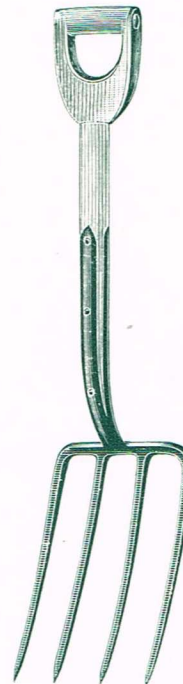
No. P 7377

Steel Potato Fork.



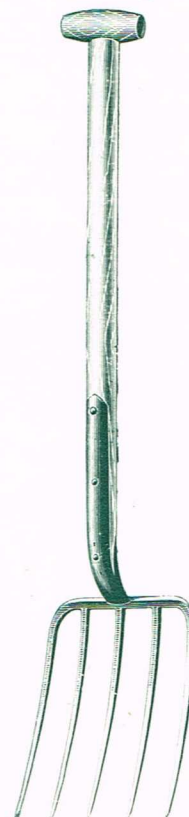
No. P 7378

Steel Trench Fork.



No. P 7379

Steel Manure Fork.



No. P 7380

		Prongs				
No.	P 7376 C.S. Digging Fork	3	4	5		
"	P 7377 " Lifting "	43/6	45/6	56/6	per doz.	
"	P 7378 " Potato "	64/-	80/-	—	"	
"		33/6	37/-	—	"	

		Prongs				
No.	P 7379 C.S. Trench Fork	3	4	5		
"	P 7380 " Manure "	49/-	55/-	66/6	per doz.	
"		—	—	56/6	"	

In ordering Spades, Shovels and Forks, please state whether crutch or box handle is required.



**GALVANIZED CORRUGATED IRON.***We carry a heavy stock.*

Approximate Number of Sheets to the Ton.

	5ft.	6ft.	7ft.	8ft.	9ft.	10ft.
20G...	117	98	85	73	65	58
22G...	139	115	96	85	76	67
24G...	166	141	122	103	91	82
26G...	231	196	167	146	131	116

Approximate Weight per Sheet.

5ft.	6ft.	7ft.	8ft.	9ft.	10ft.
13½	16	19	21½	24½	27 lbs. × 24G
9½	11½	13½	15	17	19 lbs. × 26G

**24 gauge, eight 3in. corrugations,  
2ft. wide when fixed.****PRICE ON APPLICATION.****EXTRAS.**

10ft., 6/6 : 11ft., 37/6 : 12ft., 55/- per Ton.

26 gauge Sheets, 35/- per Ton extra.



No. P 7381

**GALVANIZED RIDGING.**

In lengths, 6ft. × 15in. × 24 gauge.  
Price (as illustrated), 1/6 per length.  
Ornamental Patterns can be supplied.



No. P 7382

**GALVANIZED CONE HEAD NAILS.**

2in. and 2½in., 19/- cwt. : 10/- half-cwt. : 5/6 quarter-cwt. Smaller quantities, 3d. per lb.



No. P 7383

**GALVANIZED WASHERS.**

¾in. with ¼in. hole, 25/6 cwt. : 13/- half-cwt. : 7/- quarter-cwt.  
Smaller quantities, 3½d. per lb.

**GALVANIZED CONE HEAD ROOFING SCREWS.**

In 7lb. Parcels.—2 in. × 14 gauge, 40/- cwt. : 21/- half-cwt. : 11/- quarter-cwt. : 5d. per lb.  
" 2½in. × 14 " 38/6 " 20/- " 10/6 " 5d. "  
" 3 in. × 14 " 37/6 " 19/6 " 10/3 " 5d. "



No. P 7384

**GALVANIZED MUSHROOM HEAD ROOFING BOLTS AND NUTS.**

	¾in.	1in.	1¼in.	1½in.	2in.	All by ¼in. thick.
Per gross ...	2/-	2/-	2/3	2/4	2/6	
" dozen ...	2½d.	2½d.	3d.	3d.	3d.	



No. P 7385

**PATENT GALVANIZED CORRUGATED  
SKYLIGHT AND DEADLIGHT SHEETS.**

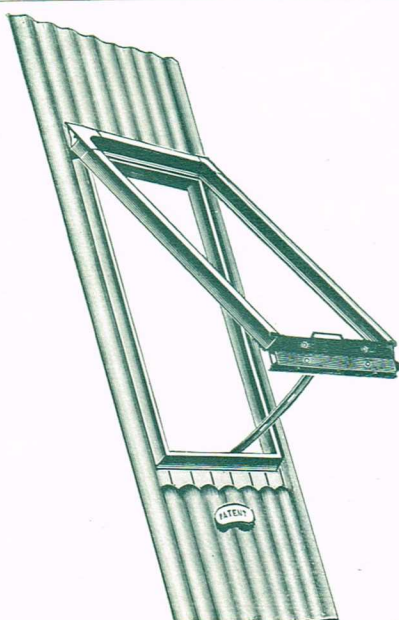
These can be fixed with ordinary corrugated sheets, and in the same manner. The Lights can be made of any dimensions adapted to the size of corrugated sheet used. The glass can be easily fixed without the use of putty, by simply unscrewing two bolts, inserting the glass, and re-screwing the bolts.

Prices for No. 24 gauge,  
For sheets to cover the usual width of 2 ft.

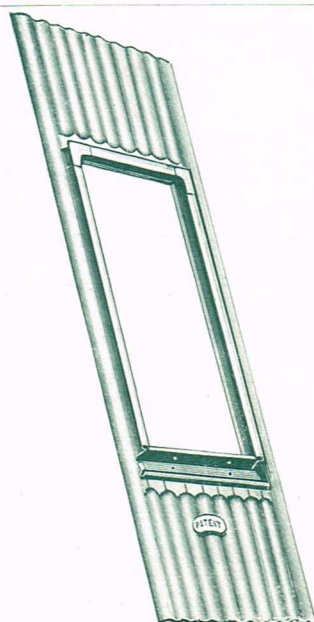
Length of Sheet	5ft.	6ft.	7ft.	8ft.	9ft.
Skylight (to open), No. P7386...	21/-	22/-	23/6	24/6	26/- ea.
Deadlight (not to open), No. P7387	12/6	13/6	14/6	15/6	17/6 "

Daylight area of above Lights, 36 × 18in.

Prices are exclusive of glass.



No. P 7386 Skylight.



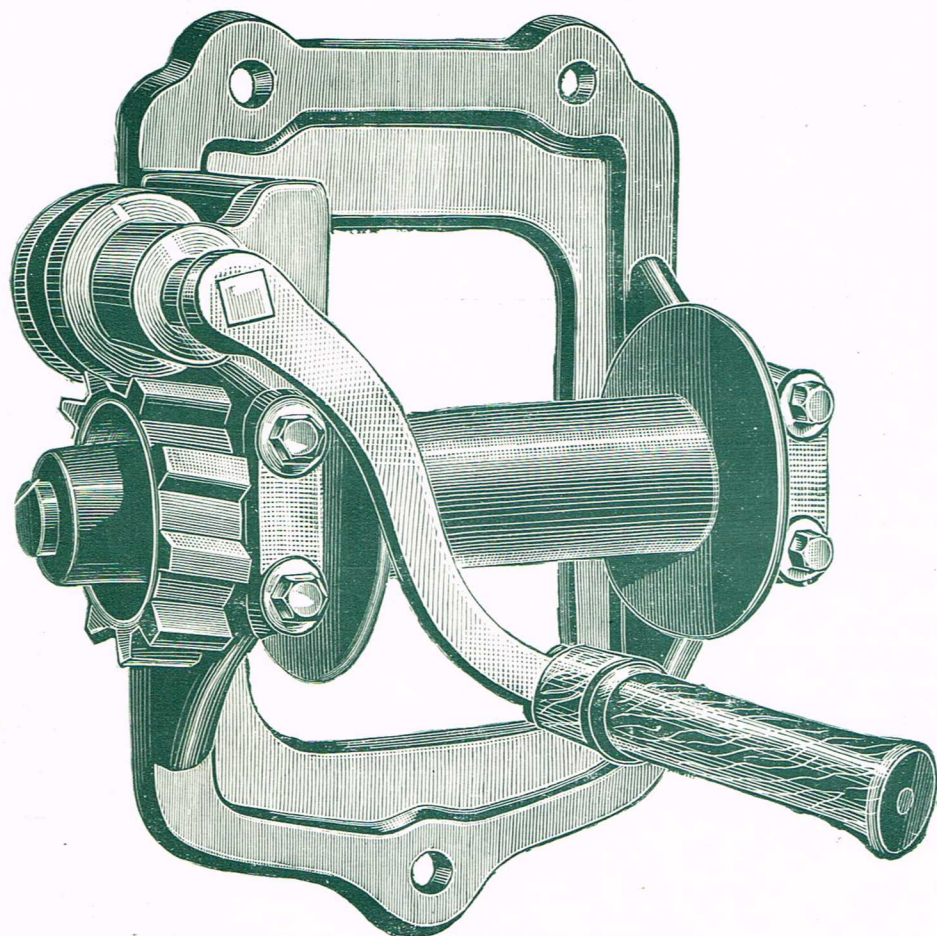
No. P 7387 Deadlight.

**The Prices on this page are NET.**



## Complete Apparatus for Raising and Lowering Carriage Hoods, etc.,

WITH PERFECT EASE AND SAFETY.



Consisting of

No. P 7385 SAFETY WALL HOIST, as described.

TWO SPECIALLY STRONG PULLEYS, for fixing on joist or ceiling. Fitted with wrought frames.

20ft. of STRONG ROPE, with special hook attached for connecting to eye bolt on carriage hood.

SUFFICIENT BOLTS and SCREWS are supplied for fixing complete as illustrated below.

PRICE:

**£2 : 10 : 0**

### No. 7385 Safety Wall Hoist.

Illustrated about one-third full size, fitted with loose handle and worn gear, therefore is self-sustaining and capable of lifting 10 cwt. Wall space required, about 13in. × 16in. high. Projection without handle, 9in. only. Price: **£1 15 0**

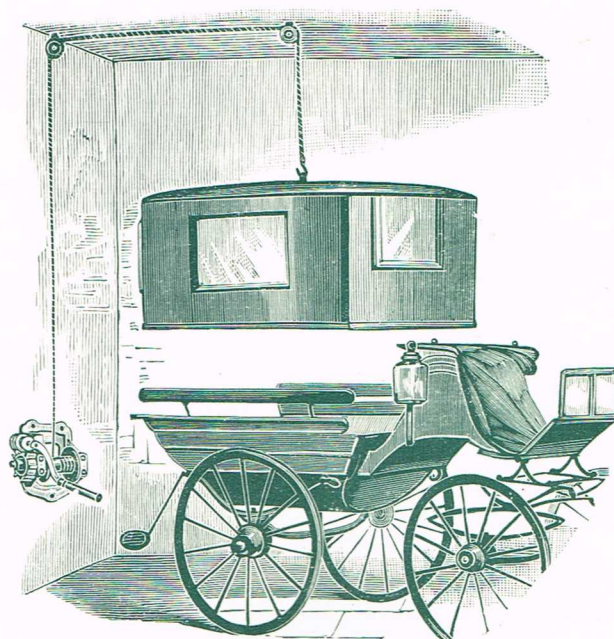


ILLUSTRATION SHOWING METHOD OF FIXING.



# Painting Brushes, etc.

Per Dozen.

## Ground Brushes.

Round, String Bound.



### GREY MIDDLES.

		8/0	6/0	4/0	3/0	2/0
No. P 7401	Best quality	99/-	82/-	75/-	65/6	51/-
" P 7402	Second quality	79/-	64/-	58/6	49/-	43/-
" P 7403	Extra best quality	108/-	88/-	80/-	70/-	—
		0	1	2	3	4
" P 7401	Best quality	47/6	36/-	31/-	25/-	19/-
" P 7402	Second quality	37/-	—	—	—	—

### All Lily Bristles.

		8/0	6/0	4/0	3/0
No. P 7405	Best quality	117/-	99/-	89/-	77/-
" P 7406	Extra best quality	125/-	102/-	95/-	—

## English-made Sash Tools.

Guaranteed Full Weights and Sizes.



### No. P 7420 Forked. Best Lily Bristles.

0	1	2	3	4	5	6	7	8	9	10	12
2/6	3/6	4/9	6/-	7/3	10/6	13/-	18/-	22/6	28/6	34/6	45/-

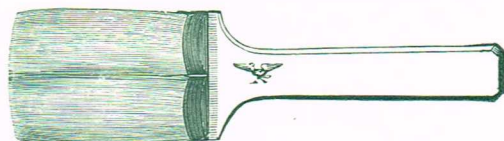
### No. P 7421 Second Quality Lily Bristles.

0	1	2	3	4	5	6	7	8	9	10	12
—	—	3/9	5/6	6/-	8/6	11/6	14/9	18/-	21/-	24/-	29/6

### No. P 7422 Extra Quality Picked Stiff Lily Bristles.

0	1	2	3	4	5	6	7	8	9	10	12
3/-	3/9	5/6	6/9	8/-	12/-	15/6	20/-	25/-	32/-	40/-	53/6

## Distemper Brushes.

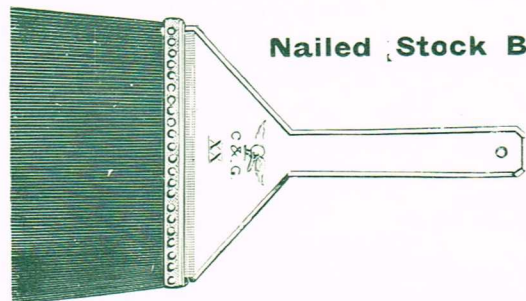
TWO KNOT, COPPER  
WIRE BOUND,  
GROUND.

		6	6	6	6	5 1/2	5 1/2 in.
		12	11	10	9	8	7oz.
No. P 7430	Best Grey Bristles	211/-	197/-	180/-	163/-	131/-	114/-
" P 7431	" Black "	209/-	195/-	178/-	161/-	129/-	114/-
" P 7432	Extra Stiff Grey Middles	221/-	204/-	188/-	171/-	—	—
" P 7433	Grey Middles	170/-	157/-	145/-	131/-	—	—
" P 7434	Special "	145/-	126/-	114/-	106/-	—	—

## Mixed Distemper Brushes.

		11	10	9	8	7	6oz.
No. P 7435	Best Grey Middles	63/-	58/-	53/-	47/6	43/-	—
" P 7436	Medium	53/-	49/-	45/6	42/-	37/-	—
" P 7437	White Fibre	14/9	13/6	12/3	11/-	10/-	8/6

N.B.—If 3-knot, 1/9; 4-knot, 2/3 per doz. extra.

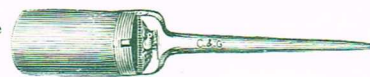


## Nailed Stock Brushes.

Stiff Picked Bristles, cemented previous to nailing.

		10	9	8	7	6	5	4	3oz.
No. P 7440	All Grey, 5 1/2 in. Bristles	172/6	157/-	143/-	—	—	—	—	—
" P 7441	" 6 in. "	195/-	176/-	157/-	—	—	—	—	—
" P 7443	All Black, 5 1/2 in. down to 7oz.	163/-	145/-	129/-	115/-	94/-	60/-	40/-	32/-

## The "Premier" One Knot Oval Ground Brushes.

Copper Wire  
Bound.Copper Wire  
Bound.

Fitted with Brass Fasteners at sides.

		8/0	6/0	4/0	3/0
	Length of Bristle	5 1/2	5	5	4 3/4 in.
No. P 7410	All Lily Bristles	115/-	98/-	88/-	76/-
" P 7411	Yellow Middles, Lily outside	107/-	89/-	82/-	69/-
" P 7412	All Black Bristles	102/-	83/-	78/-	67/-
" P 7413	Best Grey Middles	102/-	83/-	78/-	67/-
" P 7414	Special Extra Stiff Lily	121/-	103/-	95/-	—
" P 7415	" Grey Middles or all Black	107/-	89/-	83/-	—
" P 7516	Second quality Grey Middles	81/-	67/-	60/-	52/-
		2/0	0	1	2
" P 7416	Second quality Grey Middles	53/6	49/-	38/-	32/-
" P 7418	All Lily Bristles	60/-	51/-	47/6	34/6
" P 7419	Second quality Grey Middles	44/-	38/-	28/6	24/-

## German Sash Tools.

METAL BAND,  
SUPERIOR QUALITY.Crocodile  
Brand.

### No. P 7425 Extra Quality.

2	4	6	8	10	12	14	16	18	20
2/-	2/9	3/9	4/9	6/6	9/9	13/-	17/-	26/6	31/-

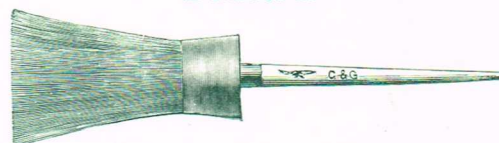
### No. P 7426 Second Quality.

2	4	6	8	10	12	14	16	18	20
1/4	2/5	3/3	4/3	5/6	7/3	9/-	12/-	22/6	26/6

### No. P 7427 Lily Bevelled.

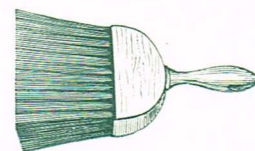
2	4	6	8	10	12	14	16	18	20
—	—	6/-	7/6	10/3	13/-	17/-	22/-	—	—

## Dusters.



		8/0	6/0	4/0	3/0	2/0	0
	Measurements, including socket	7	7	6in.	—	—	—
No. P 7450		108/-	101/-	69/-	60/-	50/-	43/-
" P 7451		—	85/-	57/-	53/-	44/-	—

## Jamb Dusters.



Black Bristles.

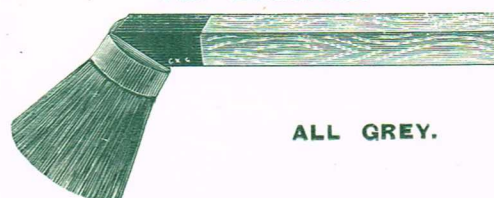
		1	2	3	4	5
No. P 7452		21/-	25/-	29/6	36/-	45/-
" P 7453	Special Line	—	—	19/6	—	—

## Tin Bound Glue Brushes.



		00	0	1	2	3	4
No. P 7460		9/6	12/9	17/-	22/-	27/-	34/-

## Tar Brushes.



ALL GREY.

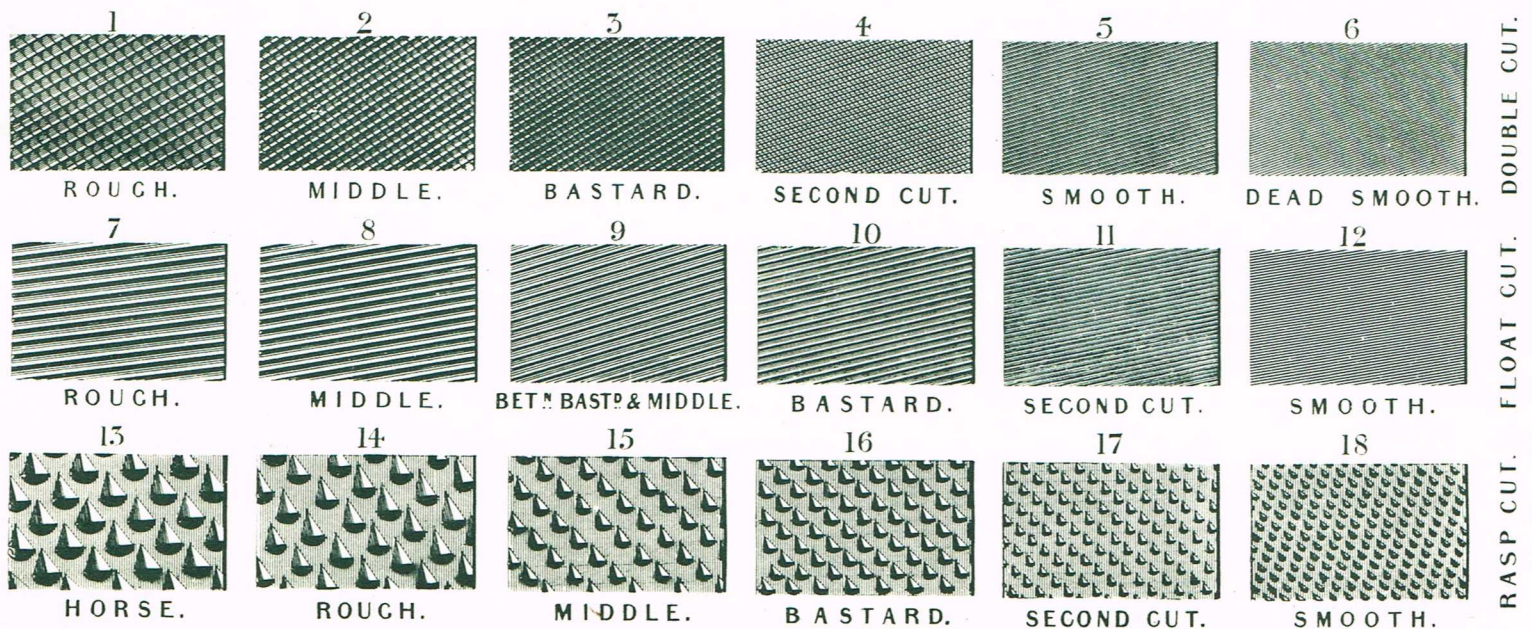
					Large.	Middle.	Small.
No. P 7456	Long Handle, Best Quality	...	...	...	33/-	25/-	17/-
" P 7457	" " Medium "	...	...	...	22/6	19/-	14/6
" P 7458	Short " Best "	...	...	...	28/6	20/-	13/-
" P 7459	" " Medium "	...	...	...	19/-	14/6	10/9





## ILLUSTRATIONS OF THE VARIOUS CUTS OF FILES, SMOOTHS, FLOATS AND RASPS.

The following Cuts are engraved from Files 12 Inches long; if longer than 12 Inches, the Cuts will be larger; if smaller, they will be less in proportion.





## SHEFFIELD STEEL FILES AND RASPS.

SAND BLASTED. HIGHEST QUALITY. WARRANTED.

Flat, Half-round, Square, Round, Entering, Taper Cotter, Horse-shoe, Flat and Half-round Rasps. Mill Saws, one or two Square Edges, Single and Double Cut. Topping Files, Single and Double, left at Point, and Safe Edges.				Three-square, Hand, Equalling one Safe Edge, Parallel Cotter, Pillar, Needle, Round-off, Bone, Potance, Round Edged Flat, Extra Thin Flat, and Flat and High Back Half-round.				Hand and Equalling cut both Edges, or with one Double-cut Edge. Lock, Arch, Riffler, Tumbler, Oval Saw Files, Cant, Taper Cross, Bellied Three-square. Double Tanged Mill Saw, Topping two Round Edges.			
Rough and Bastard.	2nd Cut, Flat and Gunstockers' and Round Rasps.	Smooth and Cabinet Files and Rasps.	Dead Smooth and extra Smooth Cabinets.	Rough and Bastard.	2nd Cut.	Smooth.	Dead Smooth.	Rough and Bastard.	2nd Cut.	Smooth.	Dead Smooth.
PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Inches 1 to 4	0 4 0	0 5 6	0 6 9	0 10 3	0 5 3	0 6 6	0 7 6	0 11 3	0 6 3	0 7 6	0 9 0
4½	0 5 3	0 6 0	0 7 6	0 11 3	0 5 9	0 6 9	0 8 3	0 12 6	0 7 0	0 8 3	0 9 6
5	0 5 9	0 6 6	0 8 3	0 12 6	0 6 3	0 7 6	0 9 0	0 13 6	0 7 6	0 8 9	0 10 6
5½	0 6 3	0 7 6	0 9 0	0 13 6	0 7 0	0 8 3	0 9 6	0 14 6	0 8 6	0 9 9	0 11 6
6	0 7 0	0 8 3	0 9 6	0 14 6	0 8 6	0 9 9	0 11 6	0 17 6	0 9 6	0 10 9	0 12 3
6½	0 7 6	0 8 9	0 10 6	0 15 9	0 9 6	0 10 9	0 12 3	0 18 6	0 10 6	0 12 0	0 13 6
7	0 8 6	0 9 9	0 11 6	0 17 6	0 10 6	0 12 0	0 13 6	1 0 0	0 11 0	0 12 9	0 14 6
7½	0 9 6	0 10 9	0 12 3	0 18 6	0 11 0	0 12 9	0 14 6	1 2 0	0 12 0	0 13 6	0 15 6
8	0 10 6	0 12 0	0 13 6	1 0 0	0 12 0	0 13 6	0 15 6	1 3 6	0 13 6	0 15 3	0 17 0
8½	0 11 0	0 12 9	0 14 6	1 2 0	0 13 6	0 15 3	0 17 0	1 5 6	0 15 0	0 17 0	0 19 0
9	0 12 0	0 13 6	0 15 6	1 3 6	0 15 0	0 17 0	0 19 0	1 8 6	0 16 6	0 18 6	1 0 6
9½	0 13 6	0 15 3	0 17 0	1 5 6	0 16 6	0 18 6	1 0 6	1 11 0	0 18 0	1 0 0	1 3 0
10	0 15 0	0 17 0	0 19 0	1 8 6	0 18 0	1 0 0	1 3 0	1 15 0	1 0 0	1 2 0	1 5 0
10½	0 16 6	0 18 6	1 0 6	1 11 0	1 0 0	1 2 0	1 5 0	1 18 0	1 1 6	1 4 0	1 6 6
11	0 18 0	1 0 0	1 3 0	1 15 0	1 1 6	1 4 0	1 6 6	2 0 0	1 3 0	1 5 6	1 8 0
11½	1 0 0	1 2 0	1 5 0	1 18 0	1 3 0	1 5 6	1 8 0	2 2 0	1 5 0	1 7 0	1 10 0
12	1 1 6	1 4 0	1 6 6	2 0 0	1 5 0	1 7 0	1 10 0	2 5 0	1 7 0	1 10 0	1 13 0
12½	1 3 0	1 5 6	1 8 0	2 2 0	1 8 0	1 10 0	1 13 0	2 10 0	1 10 0	1 13 0	1 16 0
13	1 5 0	1 7 0	1 10 0	2 5 0	1 10 0	1 13 0	1 16 0	2 14 0	1 13 0	1 16 0	1 19 0
14	1 10 0	1 13 0	1 16 0	2 14 0	1 16 0	1 19 0	2 2 0	3 3 0	1 19 0	2 3 0	2 8 0
15	1 16 0	1 19 0	2 2 0	3 3 0	2 3 0	2 7 0	2 12 0	3 18 0	2 6 0	2 11 0	2 18 0
16	2 3 0	2 7 0	2 12 0	3 18 0	2 10 0	2 15 0	3 3 0	4 14 0	2 15 0	3 0 0	3 7 0
17	2 10 0	2 15 0	3 3 0	4 14 0	3 0 0	3 5 0	3 14 0	5 11 0	3 4 0	3 10 0	3 19 0
18	3 0 0	3 5 0	3 14 0	5 11 0	3 8 0	3 15 0	4 4 0	6 6 0	3 14 0	4 2 0	4 11 0
19	3 8 0	3 15 0	4 4 0	6 6 0	4 1 0	4 9 0	4 19 0	7 9 0	4 7 0	4 15 0	5 6 0
20	4 1 0	4 9 0	4 19 0	7 9 0	4 13 0	5 1 0	5 13 0	8 10 0	5 0 0	5 8 0	6 0 0
21	4 13 0	5 1 0	5 13 0	8 10 0	5 6 0	5 15 0	6 8 0	9 12 0	5 14 0	6 3 0	6 16 0
22	5 6 0	5 15 0	6 8 0	9 12 0	6 1 0	6 12 0	7 6 0	11 0 0	6 11 0	7 1 0	7 16 0
23	6 1 0	6 12 0	7 6 0	11 0 0	7 0 0	7 11 0	8 6 0	12 10 0	7 10 0	8 1 0	9 2 0
24	7 0 0	7 11 0	8 6 0	12 10 0	7 19 0	8 12 0	9 8 0	14 2 0	8 8 0	9 2 0	10 8 0

## EXTRAS.

All above 24in., 20/- per inch extra.  
 Flat Files, Double Cut on the edge, to advance ½in.  
 Topping, Square Cut Edges, to advance ½in.  
 Mill Saw, two Round Edges, to advance ½in.  
 Feather Edge and Knife Files, to advance 3in.

## EXTRAS.

All above 24in., 20/- per inch extra.  
 Pin Files and Tanged Horse Rasps, to advance 1in.  
 Round-off, with points, to advance 1in.  
 Needle exceeding breadth of Hand Files, as Equalling cut on both Edges.  
 Equalling and Cotter Files, extra thin, to advance 1in.

## EXTRAS.

All above 24in., 20/- per inch extra.  
 Hand and Equalling, with Round Edges, to advance 1in.; if Double Cut, 2in.  
 Two-tanged Mill Saw, two Round Edges, to advance ½in.

## BEST REFINED CAST-STEEL SAW FILES.

TAPER SAW FILES.			Frame Saw Files and Gulleting.		Blunt, Segment Saw Files, and Taper cut to point.	Blunt, 2nd Cut Double, and Band Saw, 2nd Cut Single.
2nd Cut Single.	2nd Cut Double.	Smooth Single.	2nd Cut Single.	2nd Cut Double.	2nd Cut Single.	2nd Cut Single.
PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Inches 1 to 3½	0 4 0	0 4 9	0 5 6	0 4 9	0 5 9	0 5 0
4	0 4 6	0 5 3	0 6 0	0 5 3	0 6 3	0 5 6
4½	0 5 0	0 6 0	0 6 3	0 5 9	0 6 9	0 6 6
5	0 5 6	0 6 6	0 7 0	0 6 6	0 7 6	0 7 6
5½	0 6 6	0 7 6	0 8 0	0 7 6	0 8 6	0 8 6
6	0 7 6	0 8 6	0 9 0	0 8 6	0 9 6	0 9 6
6½	0 8 6	0 9 6	0 10 0	0 9 6	0 10 6	0 10 6
7	0 9 6	0 11 0	0 11 0	0 10 6	0 12 0	0 12 0
7½	0 10 6	0 12 0	0 12 6	0 12 0	0 13 0	0 13 6
8	0 12 0	0 13 6	0 14 0	0 13 6	0 14 6	0 15 6
8½	0 13 6	0 15 0	0 15 6	0 14 6	0 16 0	0 17 6
9	0 15 6	0 17 0	0 17 0	0 16 0	0 17 6	0 19 6
9½	0 17 6	0 19 6	0 19 6	0 18 0	0 19 6	1 1 6
10	0 19 6	1 1 0	1 1 0	1 0 0	1 2 0	1 4 0
11	1 4 0	1 6 0	1 6 0	1 5 0	1 7 0	1 9 0
12	1 9 0	1 11 0	1 11 0	1 10 0	1 12 0	1 14 0
13	1 14 0	1 17 0	1 17 0	1 16 0	1 19 0	2 0 0
14	2 0 0	2 3 0	2 3 0	2 3 0	2 6 0	

## REAPER KNIFE FILES.

PLAIN AND SWAGED.		KNIFE SHAPE.		CANT SHAPE.	
Single.	Double.	Single.	Double.	Single.	Double.
PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.	PER DOZ.
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Inches 7	0 8 6	0 9 0	0 8 6	0 9 6	0 12 6
8	0 9 3	0 10 0	0 9 6	0 10 6	0 13 6
9	0 11 6	0 12 9	0 11 9	0 13 3	0 16 3
10	0 13 6	0 15 6	0 13 9	0 16 0	1 1 3

## EXTRAS.

Taper Saw Files, Double Cut Smooth, to advance ½in. on Single Smooth.  
 Frame Equalling Saw Files, 3in. on Frame Saw Price.

## EXTRAS.

Rubbers, Rough and Bastard ... 1/3 per lb.  
 " Second Cut ... 1/5 "  
 " Smooth ... 1/7 "  
 ROUGH AND BASTARD. 2ND CUT. SMOOTH.  
 1lb. Rubber ... 1/8 per lb. ... 1/9 per lb. ... 1/10 "  
 2lb. " ... 1/5 " ... 1/6 " ... 1/7 "  
 3lb. " ... 1/4 " ... 1/5 " ... 1/6 "  
 Strong Flat Files & Half-thicks Rough & Bastard 1/5 "  
 " " " Second Cut ... 1/7 "  
 " " " Smooth ... 1/9 "

Three-square and Half-round, 1d. per lb. extra to Flat Files.  
 Horse-mouth Rasps, 5/- each.  
 Bread Rasps, handled, 30/- per doz.  
 Single Improved Shoe Rasps, ½in. on Flat Prices.  
 Double " " " 1in. " " "  
 Last-makers' Rasps, to advance 2in. on Cabinets.  
 Saddle-tree Rasps, to advance 3in. " "  
 All Parallel Files to advance 1in. on their respective descriptions.

All ½in., the price of the next size above.  
 Round, Half-round and Cross Files, Double Cut Second Cut, to advance ½in.  
 Ditto, Double Cut Smooth, to advance 1in.  
 Flat, Three-square and Hand Files, Rough and Middle Cut, above 14in., 6d. per doz. extra to Bastard Cut.  
 New Cut Files, to advance 1in.

Discount quoted on application.



## LANCASHIRE STEEL FILES.

HIGHEST QUALITY. WARRANTED.

THESE PRICES ARE STRICTLY NET.

### HAND-SAW FILES.

BLUNT, TAPER AND DOUBLE CUT.

3 in. ...	2/9	6 in. ...	5/6
3½ in. ...	3/-	6½ in. ...	6/6
4 in. ...	3/6	7 in. ...	7/-
4¼ in. ...	3/9	7½ in. ...	8/-
4½ in. ...	3/10	8 in. ...	10/-
4¾ in. ...	4/4	9 in. ...	12/-
5 in. ...	4/6	10 in. ...	14/-
5½ in. ...	5/-		

### FRAME OR PIT-SAW FILES.

4 in. and under ...	3/6	5½ in. and under ...	5/-
4¼ in. " ...	3/9	6 in. " ...	5/6
4½ in. " ...	4/-	6½ in. " ...	6/6
4¾ in. " ...	4/4	7 in. " ...	7/-
5 in. " ...	4/6	7½ in. " ...	8/-
5½ in. " ...	4/10	8 in. " ...	10/-

### GULLETING FILES.

9d. per doz. more than Frame Saw.

### WARDING FILES.

	Bastard.	Smooth.	Super.
Assorted ...	3/-	3/6	5/6
3 in. ...	3/-	3/6	5/6
3½ in. ...	3/-	3/6	5/6
4 in. ...	3/6	4/3	6/-
4½ in. ...	3/9	5/-	7/-
5 in. ...	4/-	5/6	8/-
6 in. ...	6/-	7/6	10/-
7 in. ...	7/6	9/-	12/-
8 in. ...	9/6	11/-	14/-

### MILL-SAW FILES.

SINGLE CUT, TWO ROUND EDGES.

8 in. ...	7/-
9 in. ...	8/8
10 in. ...	10/-

### RIFFLERS.

Ordinary Patterns.

Bastard ...	5/6 per doz.
Smooth ...	6/- "

Large Sizes and Fancy Patterns extra.

### FILE HANDLES.

Assorted sizes, with Iron Ferrule ... 6d. per doz.

The above prices are strictly Net.







